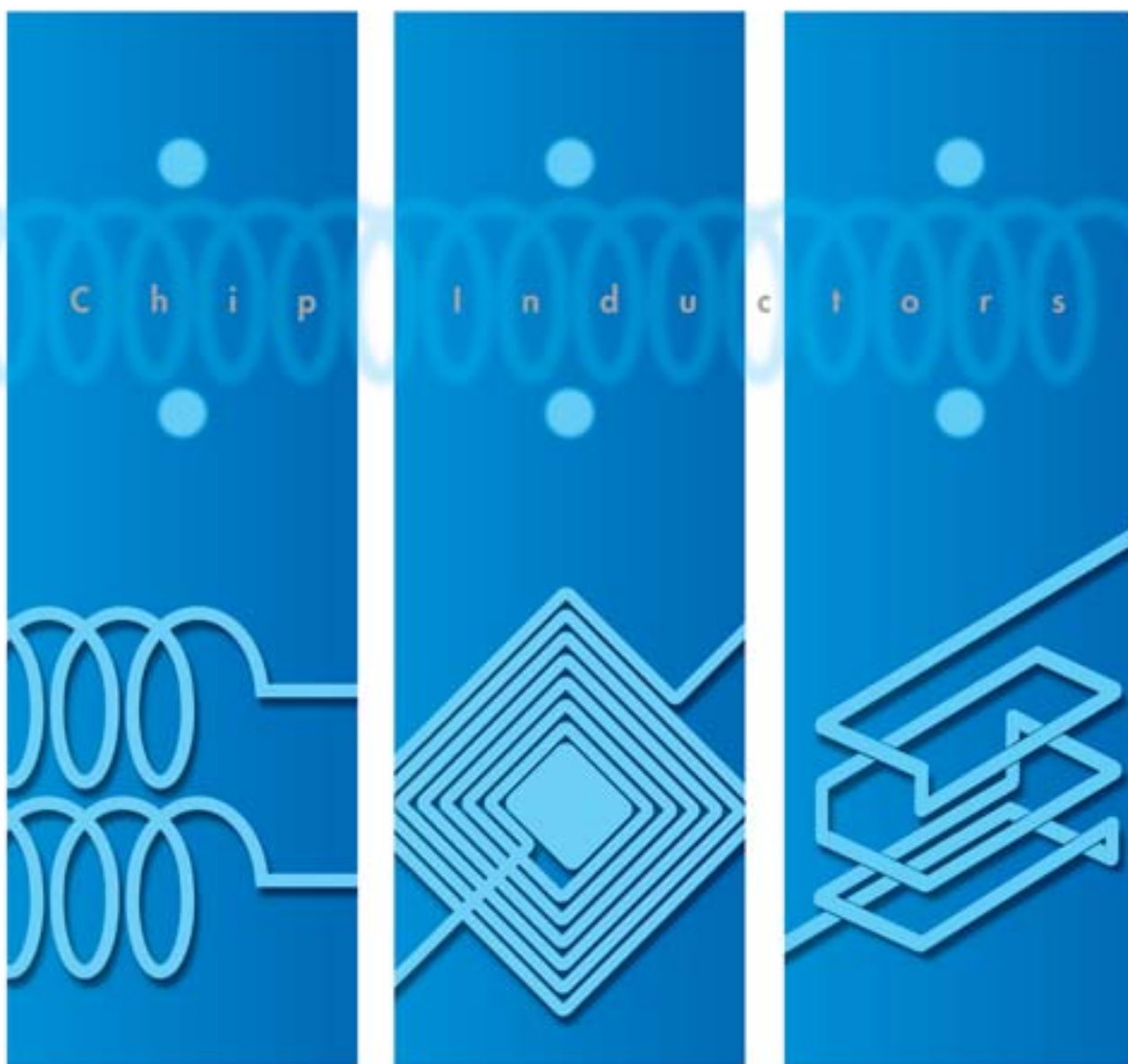


# Chip Inductors

## (Chip Coils)



*Innovator  
in Electronics*

**Murata  
Manufacturing Co., Ltd.**

⚠Note • Please read rating and ⚠CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.  
• This catalog has only typical specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

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## Introduction

Murata has various chip inductors for every application such as power circuits and high frequency circuits.

There are 3 types of structure: wirewound, multilayer, and film.

These variations enable the best selection for every user's needs.

We will support customers using material technologies and highly developed design technologies.

### Explanation of symbols in this catalog

#### Features of each series



New product



Reflow soldering applicable



Flow soldering applicable



Max height xxmm



Low DC resistance type



Bias current characteristics improved



E12 step inductance variation



E24 step inductance variation



Hi Q type



Tight inductance tolerance available

#### Features of each item



New product



Design kit available

### EU RoHS Compliant

- All the products in this catalog comply with EU RoHS.
- EU RoHS is "the European Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment."
- For more details, please refer to our website 'Murata's Approach for EU RoHS' (<http://www.murata.com/info/rohs.html>).

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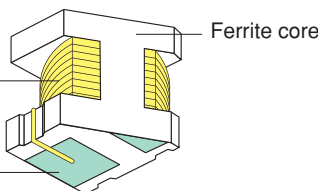
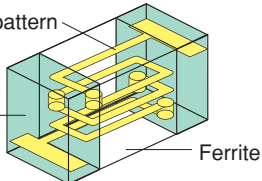
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# Classification and Structure of Chip Inductors

## Line Up and Applications for Chip Inductors

|                                                                               | Line Up                                                                                                                                                              | Applications                                                                                       |
|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| <b>For Power Lines /<br/>For Low Frequency<br/>Circuits</b><br>(Under 100MHz) | Wire Wound Type<br>Ferrite Core  LQH Series<br>(With some exceptions.)              | For Voltage Conversion<br>For Choke<br>For Resonance Circuits<br>For Low Frequency Filter Circuits |
|                                                                               | Multilayer Type<br>Ferrite Core  LQM Series                                         |                                                                                                    |
| <b>RF Inductors</b><br>(Greater than 100MHz)                                  | Wire Wound Type<br>Ferrite Core<br>for High Frequency  LQW_H Series<br>LQH_H Series | For Impedance Matching<br>For High Frequency Filter Circuits<br>For RF Choke                       |
|                                                                               | Wire Wound Type<br>Non-magnetic Core  LQW_A Series                                 |                                                                                                    |
|                                                                               | Multilayer Type<br>Non-magnetic Material  LQG Series                              |                                                                                                    |
|                                                                               | Film Type<br>Non-magnetic Material  LQP Series                                    |                                                                                                    |

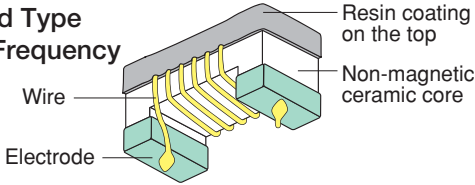
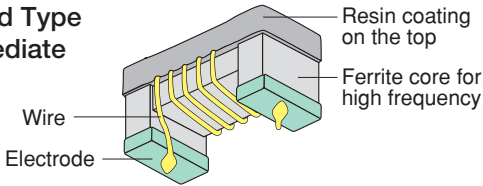
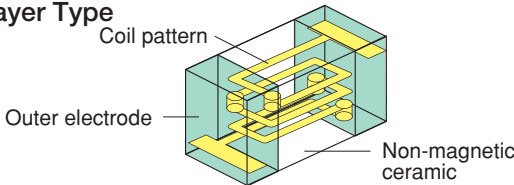
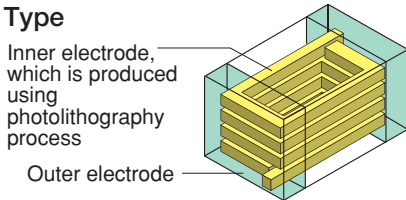
## Construction and Features of Chip Inductors

|                                                   | Construction                                                                                                | Features                                                      |
|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| <b>For Power Lines /<br/>For General Circuits</b> | <b>Wire Wound Type</b>  | Wide inductance range<br>Good DC bias current characteristics |
|                                                   | <b>Multilayer Type</b>  |                                                               |

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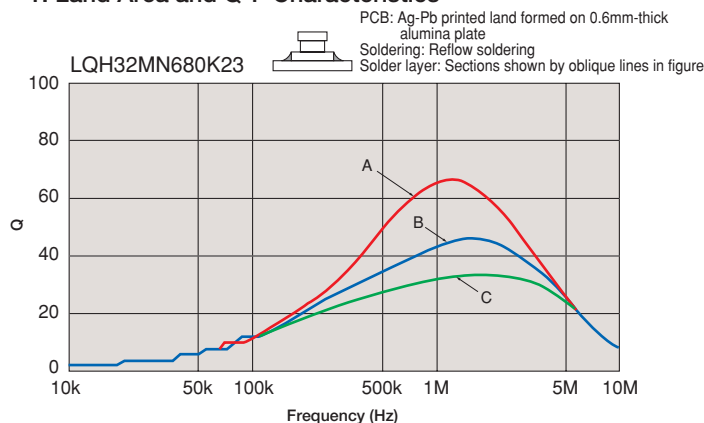
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## RF Inductors

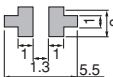
| Construction                                                                                                                                                                                                                       | Features                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| <b>Wire Wound Type For Radio Frequency</b><br> <p>Wire<br/>Electrode<br/>Resin coating on the top<br/>Non-magnetic ceramic core</p>              | <b>High Q</b><br><b>Large inductance</b> |
| <b>Wire Wound Type For Intermediate Frequency</b><br> <p>Wire<br/>Electrode<br/>Resin coating on the top<br/>Ferrite core for high frequency</p> | <b>High Q at intermediate frequency</b>  |
| <b>Multilayer Type</b><br> <p>Coil pattern<br/>Outer electrode<br/>Non-magnetic ceramic</p>                                                     | <b>Industrial standard design</b>        |
| <b>Film Type</b><br> <p>Inner electrode, which is produced using photolithography process<br/>Outer electrode</p>                               | <b>Small size, but high Q</b>            |

## Technical Data

### 1. Land Area and Q-F Characteristics

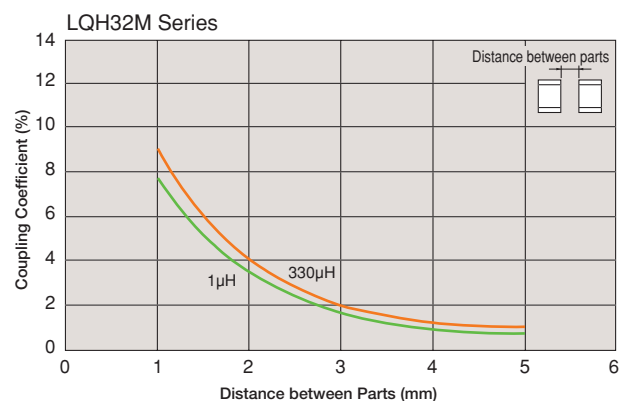


A : Net characteristics without land pattern

B :  Characteristic of chip mounted on land

C :  Characteristic of chip mounted on land  
(in mm)

### 2. Coupling Coefficient Versus Distance between Parts



Murata's LQ□ series of chip inductors (chip coils) consists of compact, high-performance inductors. Their innovative coil and case structures mean low DC resistance and outstanding high-frequency characteristics. The series is designed for a variety of applications, facilitating component selection for individual circuit requirements.

|                               | Part Number                       | Structure                         | Size Code<br>in inch (in mm) | Inductance Range (H) |       |       |       |     |      |    |      |
|-------------------------------|-----------------------------------|-----------------------------------|------------------------------|----------------------|-------|-------|-------|-----|------|----|------|
|                               |                                   |                                   |                              | 1n                   | 10n   | 100n  | 1μ    | 10μ | 100μ | 1m | 10m  |
| Inductors for Power Lines     | LQW15CN_00 <small>p86</small>     | Wire Wound Type<br>(Ferrite Core) | 0402 (1005)                  |                      | 18nH  | 200nH |       |     |      |    |      |
|                               | LQW15CN_10 <small>p87</small>     |                                   | 0402 (1005)                  |                      |       | 220nH | 560nH |     |      |    |      |
|                               | LQW18CN_00 <small>p89</small>     |                                   | 0603 (1608)                  | 4.9nH                |       | 650nH |       |     |      |    |      |
|                               | LQH2MCN_02 <small>p42</small>     |                                   | 0806 (2016)                  |                      |       | 1.0μH | 82μH  |     |      |    |      |
|                               | LQH2MCN_52 <small>p44</small>     |                                   | 0806 (2016)                  |                      |       | 1.0μH | 22μH  |     |      |    |      |
|                               | LQH2HPN_G0 <small>p46</small>     |                                   | 1008 (2520)                  |                      |       | 2.2μH | 100μH |     |      |    |      |
|                               | LQH2HPN_GR <small>p48</small>     |                                   | 1008 (2520)                  |                      |       | 470nH | 22μH  |     |      |    |      |
|                               | LQH2HPN_J0 <small>p50</small>     |                                   | 1008 (2520)                  |                      |       | 1.5μH | 10μH  |     |      |    |      |
|                               | LQH2HPN_M0 <small>p52</small>     |                                   | 1008 (2520)                  |                      |       | 2.2μH | 4.7μH |     |      |    |      |
|                               | LQH3NPN_G0 <small>p59</small>     |                                   | 1212 (3030)                  |                      |       | 1.0μH | 250μH |     |      |    |      |
|                               | LQH3NPN_J0 <small>p57</small>     |                                   | 1212 (3030)                  |                      |       | 1.0μH | 47μH  |     |      |    |      |
|                               | LQH3NPN_M0 <small>p53</small>     |                                   | 1212 (3030)                  |                      |       | 1.0μH | 100μH |     |      |    |      |
|                               | LQH3NPN_MR <small>p55</small>     |                                   | 1212 (3030)                  |                      |       | 1.0μH | 47μH  |     |      |    |      |
|                               | LQH32PN_N0 <small>p61</small>     |                                   | 1210 (3225)                  |                      |       | 470nH | 120μH |     |      |    |      |
|                               | LQH32PN_NC <small>p63</small>     |                                   | 1210 (3225)                  |                      |       | 470nH | 22μH  |     |      |    |      |
|                               | LQH32PB_N0 <small>p65</small>     |                                   | 1210 (3225)                  |                      |       | 470nH | 120μH |     |      |    |      |
|                               | LQH32PB_NC <small>p67</small>     |                                   | 1210 (3225)                  |                      |       | 470nH | 22μH  |     |      |    |      |
|                               | LQH43PN_26 <small>p69</small>     |                                   | 1812 (4532)                  |                      |       | 1.0μH | 220μH |     |      |    |      |
|                               | LQH43PB_26 <small>p71</small>     |                                   | 1812 (4532)                  |                      |       | 1.0μH | 220μH |     |      |    |      |
|                               | LQH44PN_J0 <small>p75</small>     |                                   | 1515 (4040)                  |                      |       | 1.0μH | 47μH  |     |      |    |      |
|                               | LQH44PN_P0 <small>p73</small>     |                                   | 1515 (4040)                  |                      |       | 1.0μH | 22μH  |     |      |    |      |
|                               | LQH5BPN_T0 <small>p77</small>     |                                   | 2020 (5050)                  |                      |       | 470nH | 22μH  |     |      |    |      |
|                               | LQH5BPB_T0 <small>p79</small>     |                                   | 2020 (5050)                  |                      |       | 470nH | 22μH  |     |      |    |      |
|                               | LQH31CN_03 <small>p90</small>     |                                   | 1206 (3216)                  |                      |       | 120nH | 100μH |     |      |    |      |
|                               | LQH32CN_23/33 <small>p91</small>  |                                   | 1210 (3225)                  |                      |       | 150nH | 560μH |     |      |    |      |
|                               | LQH32CN_53 <small>p93</small>     |                                   | 1210 (3225)                  |                      |       | 1.0μH | 100μH |     |      |    |      |
|                               | LQH43CN_03 <small>p94</small>     |                                   | 1812 (4532)                  |                      |       | 1.0μH | 470μH |     |      |    |      |
|                               | LQH43CN_33 <small>p95</small>     |                                   | 1812 (4532)                  |                      |       | 560nH | 3.9μH |     |      |    |      |
|                               | LQH55DN_03 <small>p96</small>     |                                   | 2220 (5750)                  |                      |       | 120nH |       |     |      |    | 10mH |
|                               | LQH66SN_03 <small>p98</small>     |                                   | 2525 (6363)                  |                      |       | 270nH |       |     |      |    | 10mH |
|                               | LQM18PN_B0 <small>p16</small>     | Multilayer Type<br>(Ferrite Core) | 0603 (1608)                  |                      |       | 1.5μH |       |     |      |    |      |
|                               | LQM18PN_C0 <small>p17</small>     |                                   | 0603 (1608)                  |                      |       | 470nH | 2.2μH |     |      |    |      |
|                               | LQM18PN_D0 <small>p18</small>     |                                   | 0603 (1608)                  |                      |       | 2.5μH |       |     |      |    |      |
|                               | LQM18PN_F0 <small>p19</small>     |                                   | 0603 (1608)                  |                      |       | 1.0μH |       |     |      |    |      |
|                               | LQM18PN_FR <small>p20</small>     |                                   | 0603 (1608)                  |                      |       | 220nH | 4.7μH |     |      |    |      |
|                               | LQM21PN_C0 <small>p22</small>     |                                   | 0805 (2012)                  |                      |       | 470nH | 2.2μH |     |      |    |      |
|                               | LQM21PN_G0 <small>p23</small>     |                                   | 0805 (2012)                  |                      |       | 470nH | 3.3μH |     |      |    |      |
|                               | LQM21PN_GS <small>p24</small>     |                                   | 0805 (2012)                  |                      |       | 2.2μH | 4.7μH |     |      |    |      |
|                               | LQM21PN_GC <small>p25</small>     |                                   | 0805 (2012)                  |                      |       | 1.0μH | 2.2μH |     |      |    |      |
|                               | LQM21PN_GR <small>p26</small>     |                                   | 0805 (2012)                  |                      |       | 1.0μH | 4.7μH |     |      |    |      |
| LQM2MPN_G0 <small>p27</small> | 0806 (2016)                       |                                   |                              |                      | 470nH | 4.7μH |       |     |      |    |      |
| LQM2MPN_GH <small>p29</small> | 0806 (2016)                       |                                   |                              |                      | 160nH | 2.2μH |       |     |      |    |      |
| LQM2HPN_G0 <small>p34</small> | 1008 (2520)                       |                                   |                              |                      | 470nH | 4.7μH |       |     |      |    |      |
| LQM2HPN_GS <small>p35</small> | 1008 (2520)                       |                                   |                              |                      | 2.2μH | 4.7μH |       |     |      |    |      |
| LQM2HPN_GC <small>p36</small> | 1008 (2520)                       |                                   |                              |                      | 1.0μH | 4.7μH |       |     |      |    |      |
| LQM2HPN_GH <small>p37</small> | 1008 (2520)                       |                                   |                              |                      | 470nH | 2.2μH |       |     |      |    |      |
| LQM2HPN_J0 <small>p31</small> | 1008 (2520)                       |                                   |                              |                      | 1.0μH | 3.3μH |       |     |      |    |      |
| LQM2HPN_JC <small>p33</small> | 1008 (2520)                       |                                   |                              |                      | 1.0μH | 2.2μH |       |     |      |    |      |
| LQM2HPN_JH <small>p32</small> | 1008 (2520)                       |                                   |                              |                      | 470nH | 2.2μH |       |     |      |    |      |
| LQM2HPN_E0 <small>p38</small> | 1008 (2520)                       |                                   |                              |                      | 560nH |       |       |     |      |    |      |
| LQM31PN_00 <small>p39</small> | 1206 (3216)                       |                                   |                              |                      | 470nH | 4.7μH |       |     |      |    |      |
| LQM31PN_C0 <small>p40</small> | 1206 (3216)                       |                                   |                              |                      | 470nH | 2.2μH |       |     |      |    |      |
| LQM32PN_G0 <small>p41</small> | 1210 (3225)                       |                                   |                              |                      | 1.0μH |       |       |     |      |    |      |
| LQM18FN_00 <small>p81</small> | 0603 (1608)                       |                                   |                              |                      | 1.0μH | 10μH  |       |     |      |    |      |
| LQM21DN_00 <small>p82</small> | 0805 (2012)                       |                                   |                              |                      | 1.0μH | 47μH  |       |     |      |    |      |
| LQM21FN_00 <small>p83</small> | 0805 (2012)                       |                                   |                              |                      | 1.0μH | 47μH  |       |     |      |    |      |
| LQM21FN_70 <small>p84</small> | 0805 (2012)                       |                                   |                              |                      |       | 4.7μH | 10μH  |     |      |    |      |
| LQM21FN_80 <small>p85</small> | 0805 (2012)                       |                                   |                              |                      |       | 4.7μH | 10μH  |     |      |    |      |
| Inductors for General Use     | LQB15NN_10 <small>p119</small>    | Multilayer Type<br>(Ferrite Core) | 0402 (1005)                  |                      |       | 220nH | 560nH |     |      |    |      |
|                               | LQB18NN_10 <small>p121</small>    |                                   | 0603 (1608)                  |                      |       | 220nH | 560nH |     |      |    |      |
|                               | LQM18NN_00 <small>p123</small>    |                                   | 0603 (1608)                  |                      |       | 47nH  | 2.2μH |     |      |    |      |
|                               | LQM21NN_10 <small>p125</small>    | Wire Wound Type<br>(Ferrite Core) | 0805 (2012)                  |                      |       | 100nH | 4.7μH |     |      |    |      |
|                               | LQH31MN_03 <small>p127</small>    |                                   | 1206 (3216)                  |                      |       | 150nH | 100μH |     |      |    |      |
|                               | LQH32MN_23 <small>p129</small>    |                                   | 1210 (3225)                  |                      |       | 1.0μH | 560μH |     |      |    |      |
|                               | LQH43M(N)N_03 <small>p131</small> |                                   | 1812 (4532)                  |                      |       | 1.0μH | 2.2mH |     |      |    |      |
|                               | LQH44NN_03 <small>p134</small>    |                                   | 1515 (4040)                  |                      |       | 510nH | 470μH |     |      |    |      |

Inductance Lineup  
 : E-24 or Higher  
 : E-12  
 : 0.1nH Step  
 : Other  
 \*There are some items that do not match to E step.

CAUTION: Use rosin-based flux, but not strong acidic flux (with chlorine content exceeding 0.2wt%) when soldering chip inductors (chip coils).  
Do not use water-soluble flux.

|                           | Part Number        | Rated Current (A) |       |            |    | Thickness<br>max. | Low Rdc | Bias | E-12<br>Step | E-24<br>Step | HiQ | Tight<br>Tolerance | FlowOK | New |
|---------------------------|--------------------|-------------------|-------|------------|----|-------------------|---------|------|--------------|--------------|-----|--------------------|--------|-----|
|                           |                    | 10m               | 100m  | 1          | 10 |                   |         |      |              |              |     |                    |        |     |
| Inductors for Power Lines | LQW15CN_00 p86     |                   | 390mA | 1.4A       |    | 0.6mm             |         |      |              |              |     |                    |        |     |
|                           | LQW15CN_10 p87     |                   | 300mA | 450mA      |    | 0.6mm             |         |      |              |              |     |                    |        | New |
|                           | LQW18CN_00 p89     |                   | 430mA | 2.6A       |    | 0.95mm            |         |      |              |              |     |                    |        |     |
|                           | LQH2MCN_02 p42     |                   | 90mA  | 485mA      |    | 0.95mm            |         |      |              |              |     |                    |        |     |
|                           | LQH2MCN_52 p44     |                   | 130mA | 595mA      |    | 0.7mm             |         |      |              |              |     |                    |        |     |
|                           | LQH2HPN_G0 p46     |                   | 130mA | 1.0A       |    | 1.0mm             |         |      |              |              |     |                    |        |     |
|                           | LQH2HPN_GR p48     |                   | 430mA | 2.52A      |    | 1.0mm             | Low Rdc |      |              |              |     |                    |        | New |
|                           | LQH2HPN_J0 p50     |                   | 550mA | 1.5A       |    | 1.2mm             |         |      |              |              |     |                    |        |     |
|                           | LQH2HPN_M0 p52     |                   | 800mA | 1.25A      |    | 1.5mm             |         |      |              |              |     |                    |        |     |
|                           | LQH3NPN_G0 p59     |                   | 130mA | 1.525A     |    | 1.0mm             |         |      |              |              |     |                    |        |     |
|                           | LQH3NPN_J0 p57     |                   | 350mA | 1.62A      |    | 1.2mm             |         |      |              |              |     |                    |        |     |
|                           | LQH3NPN_M0 p53     |                   | 240mA | 2.05A      |    | 1.5mm             |         |      |              |              |     |                    |        |     |
|                           | LQH3NPN_MR p55     |                   | 460mA | 2.15A      |    | 1.5mm             | Low Rdc |      |              |              |     |                    |        |     |
|                           | LQH32PN_N0 p61     |                   | 200mA | 2.55A      |    | 1.7mm             |         |      |              |              |     |                    |        |     |
|                           | LQH32PN_NC p63     |                   | 550mA | 2.9A       |    | 1.7mm             |         | Bias |              |              |     |                    |        |     |
|                           | LQH32PB_N0 p65     |                   | 200mA | 2.55A      |    | 1.7mm             |         |      |              |              |     |                    |        |     |
|                           | LQH32PB_NC p67     |                   | 550mA | 2.9A       |    | 1.7mm             |         | Bias |              |              |     |                    |        |     |
|                           | LQH43PN_26 p69     |                   | 240mA | 3.3A       |    | 2.8mm             |         |      |              |              |     |                    | Flow   |     |
|                           | LQH43PB_26 p71     |                   | 240mA | 3.3A       |    | 2.8mm             |         |      |              |              |     |                    |        | New |
|                           | LQH44PN_J0 p75     |                   | 380mA | 1.53A      |    | 1.2mm             |         |      |              |              |     |                    |        |     |
|                           | LQH44PN_P0 p73     |                   | 790mA | 2.45A      |    | 1.8mm             |         |      |              |              |     |                    |        |     |
|                           | LQH5BPN_T0 p77     |                   | 1.05A | 4.0A       |    | 2.2mm             |         |      |              |              |     |                    |        |     |
|                           | LQH5BPN_T0 p79     |                   | 1.05A | 4.0A       |    | 2.2mm             |         |      |              |              |     |                    |        | New |
|                           | LQH31CN_03 p90     |                   | 80mA  | 970mA      |    | 2.0mm             |         |      |              |              |     |                    | Flow   |     |
|                           | LQH32CN_23/33 p91  |                   | 60mA  | 1.45A      |    | 2.2mm             |         |      |              |              |     |                    | Flow   |     |
|                           | LQH32CN_53 p93     |                   | 100mA | 1.0A       |    | 1.7mm             |         |      |              |              |     |                    | Flow   |     |
|                           | LQH43CN_03 p94     |                   | 90mA  | 1.08A      |    | 2.8mm             |         |      |              |              |     |                    | Flow   |     |
|                           | LQH43CN_33 p95     |                   |       | 1.6A 2.95A |    | 2.8mm             |         |      |              |              |     |                    | Flow   |     |
|                           | LQH55DN_03 p96     |                   | 50mA  | 6.0A       |    | 5.0mm             |         |      |              |              |     |                    |        |     |
|                           | LQH66SN_03 p98     |                   | 50mA  | 6.0A       |    | 5.0mm             |         |      |              |              |     |                    |        |     |
|                           | LQM18PN_B0 p16     |                   | 600mA |            |    | 0.4mm             |         |      |              |              |     |                    | Flow   |     |
|                           | LQM18PN_C0 p17     |                   | 700mA | 850mA      |    | 0.55mm            |         |      |              |              |     |                    | Flow   | New |
|                           | LQM18PN_D0 p18     |                   | 700mA |            |    | 0.75mm            |         |      |              |              |     |                    | Flow   |     |
|                           | LQM18PN_F0 p19     |                   | 600mA |            |    | 0.95mm            |         |      |              |              |     |                    | Flow   |     |
|                           | LQM18PN_FR p20     |                   | 620mA | 1.25A      |    | 0.95mm            | Low Rdc |      |              |              |     |                    | Flow   |     |
|                           | LQM21PN_C0 p22     |                   | 600mA | 1.1A       |    | 0.55mm            |         |      |              |              |     |                    | Flow   |     |
|                           | LQM21PN_G0 p23     |                   | 800mA | 1.3A       |    | 1.0mm             |         |      |              |              |     |                    | Flow   |     |
|                           | LQM21PN_GS p24     |                   | 750mA | 950mA      |    | 1.0mm             |         |      |              |              |     |                    | Flow   |     |
|                           | LQM21PN_GC p25     |                   | 800mA | 900mA      |    | 1.0mm             |         | Bias |              |              |     |                    | Flow   |     |
|                           | LQM21PN_GR p26     |                   | 800mA | 1.3A       |    | 1.0mm             | Low Rdc |      |              |              |     |                    | Flow   |     |
|                           | LQM2MPN_G0 p27     |                   | 1.1A  | 1.6A       |    | 1.0mm             |         |      |              |              |     |                    | Flow   |     |
|                           | LQM2MPN_GH p29     |                   | 1.0A  | 4.0A       |    | 1.0mm             | Low Rdc | Bias |              |              |     |                    | New    |     |
|                           | LQM2HPN_G0 p34     |                   | 1.1A  | 1.8A       |    | 1.0mm             |         |      |              |              |     |                    | Flow   |     |
|                           | LQM2HPN_GS p35     |                   | 1.0A  | 1.1A       |    | 1.0mm             |         |      |              |              |     |                    | Flow   |     |
|                           | LQM2HPN_GC p36     |                   | 800mA | 1.5A       |    | 1.0mm             |         | Bias |              |              |     |                    | Flow   |     |
|                           | LQM2HPN_GH p37     |                   | 1.5A  | 2.6A       |    | 1.0mm             | Low Rdc | Bias |              |              |     |                    | New    |     |
|                           | LQM2HPN_J0 p31     |                   | 1.0A  | 1.5A       |    | 1.2mm             |         |      |              |              |     |                    | Flow   |     |
|                           | LQM2HPN_JC p33     |                   | 1.0A  | 1.5A       |    | 1.2mm             |         | Bias |              |              |     |                    | Flow   |     |
|                           | LQM2HPN_JH p32     |                   | 1.5A  | 2.7A       |    | 1.2mm             | Low Rdc | Bias |              |              |     |                    | New    |     |
|                           | LQM2HPN_E0 p38     |                   |       | 1.5A       |    | 0.8mm             |         |      |              |              |     |                    | Flow   |     |
|                           | LQM31PN_00 p39     |                   | 700mA | 1.4A       |    | 0.95mm            |         |      |              |              |     |                    | Flow   |     |
|                           | LQM31PN_C0 p40     |                   | 900mA | 1.3A       |    | 0.55mm            |         |      |              |              |     |                    | Flow   |     |
|                           | LQM32PN_G0 p41     |                   |       | 1.8A       |    | 1.0mm             |         |      |              |              |     |                    |        |     |
|                           | LQM18FN_00 p81     |                   | 50mA  | 150mA      |    | 0.9mm             |         |      |              |              |     |                    | Flow   |     |
|                           | LQM21DN_00 p82     | 7.0mA             | 60mA  |            |    | 1.45mm            |         |      |              |              |     |                    | Flow   |     |
|                           | LQM21FN_00 p83     | 7.0mA             | 220mA |            |    | 1.45mm            |         |      |              |              |     |                    | Flow   |     |
|                           | LQM21FN_70 p84     |                   | 100mA | 120mA      |    | 1.45mm            |         |      |              |              |     |                    | Flow   |     |
|                           | LQM21FN_80 p85     |                   | 100mA | 120mA      |    | 1.45mm            |         |      |              |              |     |                    | Flow   |     |
| Inductors for General Use | LQB15NN_10 p119    |                   | 300mA | 380mA      |    | 0.55mm            |         |      | E-12         |              |     |                    | New    |     |
|                           | LQB18NN_10 p121    |                   | 300mA | 450mA      |    | 0.95mm            |         |      | E-12         |              |     |                    | Flow   | New |
|                           | LQM18NN_00 p123    | 15mA              | 50mA  |            |    | 0.95mm            |         |      | E-12         |              |     |                    | Flow   |     |
|                           | LQM21NN_10 p125    | 30mA              | 250mA |            |    | 1.45mm            |         |      | E-12         |              |     |                    | Flow   |     |
|                           | LQH31MN_03 p127    |                   | 45mA  | 250mA      |    | 2.0mm             |         |      | E-12         |              |     |                    | Flow   |     |
|                           | LQH32MN_23 p129    |                   | 40mA  | 445mA      |    | 2.2mm             |         |      | E-12         |              |     |                    | Flow   |     |
|                           | LQH43M(N)N_03 p131 |                   | 30mA  | 500mA      |    | 2.8mm             |         |      | E-12         |              |     |                    | Flow   |     |
|                           | LQH44NN_03 p134    |                   | 145mA | 4.5A       |    | 4.5mm             |         |      |              |              |     |                    |        | New |

Continued on the following page. 

|              | Part Number                    | Structure                              | Size Code<br>in inch (in mm)           | Inductance Range (H) |                        |                        |                        |                        |       |    |     |  |
|--------------|--------------------------------|----------------------------------------|----------------------------------------|----------------------|------------------------|------------------------|------------------------|------------------------|-------|----|-----|--|
|              |                                |                                        |                                        | 1n                   | 10n                    | 100n                   | 1μ                     | 10μ                    | 100μ  | 1m | 10m |  |
| RF Inductors | LQG15HN_02 <small>p148</small> | Multilayer Type<br>(Non-Magnetic Core) | 0402 (1005)                            | 1.0nH                | <div><div></div></div> | 120nH                  |                        |                        |       |    |     |  |
|              | LQG15HS_02 <small>p150</small> |                                        | 0402 (1005)                            | 1.0nH                | <div><div></div></div> | 270nH                  |                        |                        |       |    |     |  |
|              | LQG18HN_00 <small>p153</small> |                                        | 0603 (1608)                            | 1.2nH                | <div><div></div></div> | 100nH                  |                        |                        |       |    |     |  |
|              | LQP02TN_02 <small>p155</small> | Film Type<br>(Non-Magnetic Core)       | 01005 (0402)                           | 0.2nH                | <div><div></div></div> | 39nH                   |                        |                        |       |    |     |  |
|              | LQP02TQ_02 <small>p161</small> |                                        | 01005 (0402)                           | 0.4nH                | <div><div></div></div> | 10nH                   |                        |                        |       |    |     |  |
|              | LQP03TG_02 <small>p164</small> |                                        | 0201 (0603)                            | 0.6nH                | <div><div></div></div> | 120nH                  |                        |                        |       |    |     |  |
|              | LQP03TN_02 <small>p169</small> |                                        | 0201 (0603)                            | 0.6nH                | <div><div></div></div> | 270nH                  |                        |                        |       |    |     |  |
|              | LQP15MN_02 <small>p174</small> |                                        | 0402 (1005)                            | 1.0nH                | <div><div></div></div> | 33nH                   |                        |                        |       |    |     |  |
|              | LQP18MN_02 <small>p177</small> |                                        | 0603 (1608)                            | 1.3nH                | <div><div></div></div> | 100nH                  |                        |                        |       |    |     |  |
|              | LQW03AW_00 <small>p179</small> |                                        | Wire Wound Type<br>(Non-Magnetic Core) | -                    |                        | 5.4nH                  | <div><div></div></div> | 13nH                   |       |    |     |  |
|              | LQW04AN_00 <small>p181</small> | 03015 (0804)                           |                                        | 1.1nH                | <div><div></div></div> | 33nH                   |                        |                        |       |    |     |  |
|              | LQW15AN_00 <small>p184</small> | 0402 (1005)                            |                                        | 1.5nH                | <div><div></div></div> | 120nH                  |                        |                        |       |    |     |  |
|              | LQW15AN_10 <small>p189</small> | 0402 (1005)                            |                                        | 1.3nH                | <div><div></div></div> | 5.6nH                  |                        |                        |       |    |     |  |
|              | LQW15AN_80 <small>p191</small> | 0402 (1005)                            |                                        | 1.3nH                | <div><div></div></div> | 75nH                   |                        |                        |       |    |     |  |
|              | LQW18AN_00 <small>p199</small> | 0603 (1608)                            |                                        | 2.2nH                | <div><div></div></div> | 470nH                  |                        |                        |       |    |     |  |
|              | LQW18AN_10 <small>p203</small> | 0603 (1608)                            |                                        | 2.2nH                | <div><div></div></div> | 33nH                   |                        |                        |       |    |     |  |
|              | LQW18AN_80 <small>p205</small> | 0603 (1608)                            |                                        | 2.2nH                | <div><div></div></div> | 390nH                  |                        |                        |       |    |     |  |
|              | LQW2BAS_00 <small>p213</small> | 0805 (2015)                            |                                        | 2.8nH                | <div><div></div></div> | 820nH                  |                        |                        |       |    |     |  |
|              | LQW2BHN_03 <small>p209</small> | 0805 (2015)                            |                                        | 3.3nH                | <div><div></div></div> | 470nH                  |                        |                        |       |    |     |  |
|              | LQW2BHN_13 <small>p211</small> | 0805 (2015)                            |                                        | 2.7nH                | <div><div></div></div> | 27nH                   |                        |                        |       |    |     |  |
|              | LQW2UAS_00 <small>p216</small> | 1008 (2520)                            |                                        |                      | 12nH                   | <div><div></div></div> | 4.7μH                  |                        |       |    |     |  |
|              | LQW31HN_03 <small>p219</small> | 1206 (3216)                            |                                        |                      | 8.8nH                  | <div><div></div></div> | 100nH                  |                        |       |    |     |  |
|              | LQW21HN_00 <small>p221</small> | Wire Wound Type<br>(Ferrite Core)      |                                        | 0805 (2012)          |                        |                        | 470nH                  | <div><div></div></div> | 2.2μH |    |     |  |
|              | LQH31HN_03 <small>p223</small> |                                        | 1206 (3216)                            |                      |                        | 54nH                   | <div><div></div></div> | 880nH                  |       |    |     |  |

Inductance Lineup

: E-24 or Higher

: E-12

: 0.1nH Step

: Other

\*There are some items that do not match to E step.

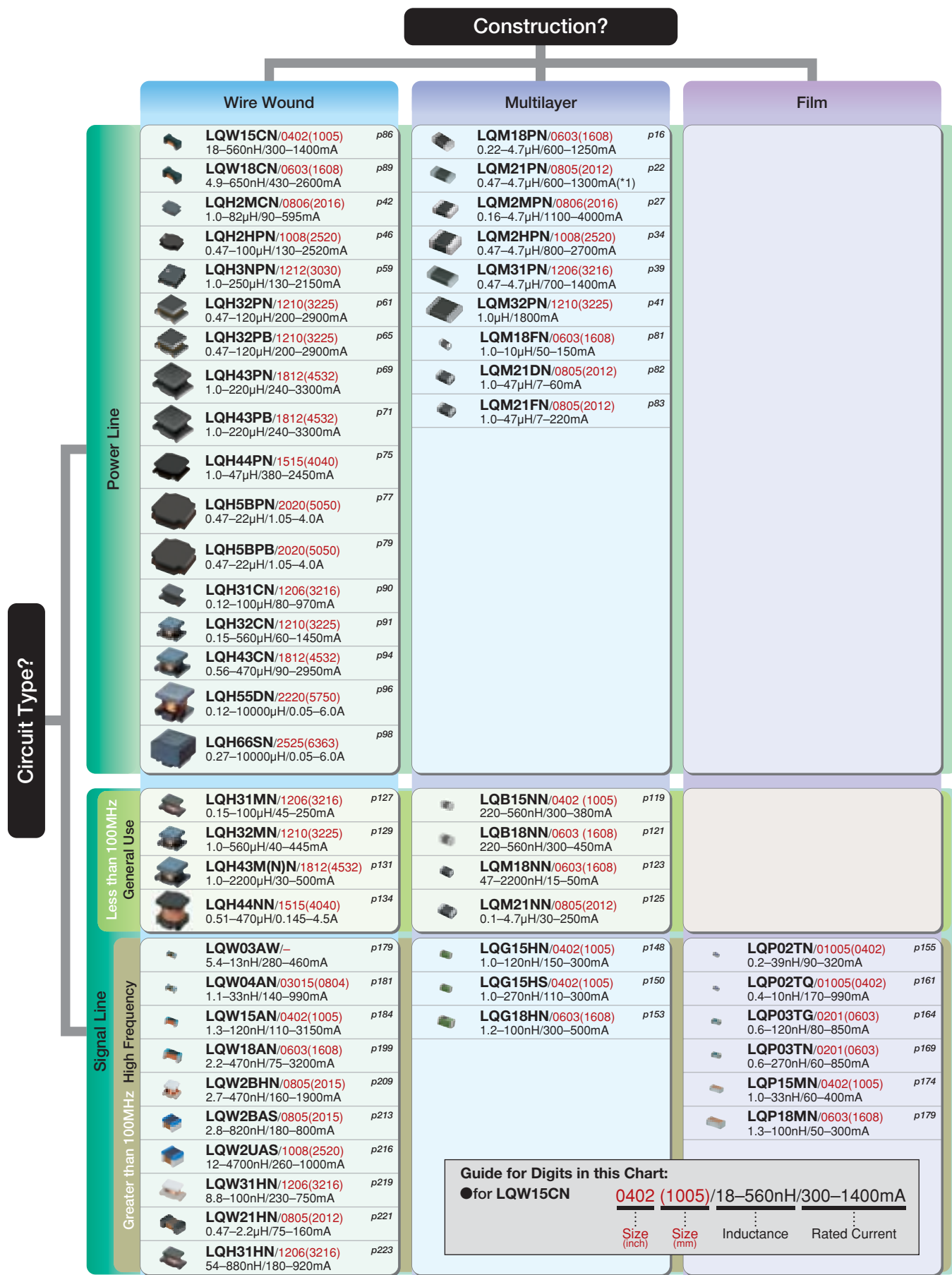
Inductance Lineup

- : E-24 or Higher
- : E-12
- : 0.1nH Step
- : Other

\*There are some items that do not match to E step.

CAUTION: Use rosin-based flux, but not strong acidic flux (with chlorine content exceeding 0.2wt%) when soldering chip inductors (chip coils).  
Do not use water-soluble flux.

|              | Part Number     | Rated Current (A) |       |       |    | Thickness          | Low Rdc | Bias | E-12 Step | E-24 Step | H <sub>q</sub> | Tight Tolerance | Flow OK | New |
|--------------|-----------------|-------------------|-------|-------|----|--------------------|---------|------|-----------|-----------|----------------|-----------------|---------|-----|
|              |                 | 10m               | 100m  | 1     | 10 | max.               |         |      |           |           |                |                 |         |     |
| RF Inductors | LQG15HN_02 p148 |                   | 150mA | 300mA |    | 0.55 <sub>mm</sub> |         |      | E-12      | E-24      |                |                 |         |     |
|              | LQG15HS_02 p150 |                   | 110mA | 300mA |    | 0.55 <sub>mm</sub> |         |      | E-12      | E-24      |                |                 |         |     |
|              | LQG18HN_00 p153 |                   | 300mA | 500mA |    | 0.95 <sub>mm</sub> |         |      | E-12      |           |                |                 |         |     |
|              | LQP02TN_02 p155 |                   | 90mA  | 320mA |    | 0.22 <sub>mm</sub> |         |      |           | E-24      |                | Tight           |         | New |
|              | LQP02TQ_02 p161 |                   | 170mA | 990mA |    | 0.22 <sub>mm</sub> |         |      |           | E-24      | High Q         | Tight           |         | New |
|              | LQP03TG_02 p164 |                   | 80mA  | 850mA |    | 0.33 <sub>mm</sub> |         |      | E-12      | E-24      |                | Tight           |         | New |
|              | LQP03TN_02 p169 |                   | 60mA  | 850mA |    | 0.33 <sub>mm</sub> |         |      |           | E-24      |                | Tight           |         | New |
|              | LQP15MN_02 p174 |                   | 60mA  | 400mA |    | 0.45 <sub>mm</sub> |         |      | E-12      | E-24      |                | Tight           |         |     |
|              | LQP18MN_02 p177 |                   | 50mA  | 300mA |    | 0.6 <sub>mm</sub>  |         |      | E-12      | E-24      |                | Tight           |         |     |
|              | LQW03AW_00 p179 |                   | 280mA | 460mA |    | 0.45 <sub>mm</sub> |         |      | E-12      | E-24      |                |                 |         | New |
|              | LQW04AN_00 p181 |                   | 140mA | 990mA |    | 0.45 <sub>mm</sub> |         |      | E-12      | E-24      |                |                 |         |     |
|              | LQW15AN_00 p184 |                   | 110mA | 1.0A  |    | 0.6 <sub>mm</sub>  |         |      | E-12      | E-24      |                | Tight           |         |     |
|              | LQW15AN_10 p189 |                   | 800mA | 1.2A  |    | 0.6 <sub>mm</sub>  | Low Rdc |      | E-12      | E-24      | High Q         | Tight           |         |     |
|              | LQW15AN_80 p191 |                   | 320mA | 3.15A |    | 0.6 <sub>mm</sub>  | Low Rdc |      | E-12      | E-24      | High Q         | Tight           |         | New |
|              | LQW18AN_00 p199 |                   | 75mA  | 850mA |    | 1.0 <sub>mm</sub>  |         |      | E-12      | E-24      |                | Tight           |         |     |
|              | LQW18AN_10 p203 |                   | 550mA | 1.4A  |    | 1.0 <sub>mm</sub>  | Low Rdc |      | E-12      |           | High Q         | Tight           |         |     |
|              | LQW18AN_80 p205 |                   | 190mA | 3.2A  |    | 1.0 <sub>mm</sub>  | Low Rdc |      | E-12      | E-24      |                | Tight           |         | New |
|              | LQW2BAS_00 p213 |                   | 180mA | 800mA |    | 1.52 <sub>mm</sub> |         |      | E-12      | E-24      |                |                 |         |     |
|              | LQW2BHN_03 p209 |                   | 160mA | 1.32A |    | 1.78 <sub>mm</sub> |         |      | E-12      |           |                | Tight           | Flow    |     |
|              | LQW2BHN_13 p211 |                   | 900mA | 1.9A  |    | 1.78 <sub>mm</sub> |         |      | E-12      |           | High Q         |                 | Flow    |     |
|              | LQW2UAS_00 p216 |                   | 260mA | 1.0A  |    | 2.03 <sub>mm</sub> |         |      | E-12      | E-24      |                |                 |         |     |
|              | LQW31HN_03 p219 |                   | 230mA | 750mA |    | 2.0 <sub>mm</sub>  |         |      | E-12      |           |                |                 | Flow    |     |
|              | LQW21HN_00 p221 |                   | 75mA  | 160mA |    | 1.0 <sub>mm</sub>  |         |      | E-12      |           |                |                 |         |     |
|              | LQH31HN_03 p223 |                   | 180mA | 920mA |    | 2.0 <sub>mm</sub>  |         |      |           |           |                |                 | Flow    |     |



\*1 In operating temperature exceeding +85°C, derating of current is necessary for LQM21PN3R3NG0/LQM21PN3R3MG0-LQW15C series.  
Please apply the derating curve shown in detailed page according to the operating temperature.

⚠ Note • Please read rating and ⚠ CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.  
• This catalog has only typical specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

Which Thickness?

### Inductors for Power Lines

|        | Multilayer Type                                                                  | Wire Wound Type                        | Multilayer Type for Choke                                      | Wire Wound Type for Choke |
|--------|----------------------------------------------------------------------------------|----------------------------------------|----------------------------------------------------------------|---------------------------|
| 0.35mm | LQM18P_B0                                                                        |                                        |                                                                |                           |
| 0.5mm  | LQM18P_C0 / LQM21P_C0 / LQM31P_C0                                                |                                        |                                                                | LQW15C                    |
| 0.6mm  | LQM18P_D0                                                                        |                                        |                                                                |                           |
| 0.65mm |                                                                                  | LQH2MC_52                              |                                                                |                           |
| 0.7mm  | LQM2HP_E0                                                                        |                                        |                                                                |                           |
| 0.8mm  | LQM18P_F0 / FR                                                                   |                                        | LQM18F                                                         | LQW18C                    |
| 0.85mm | LQM31P_00                                                                        |                                        | LQM21D (1.0 to 10μH) / LQM21F_00 (1.0 to 2.2μH)                |                           |
| 0.9mm  | LQM21P_G0 / GS / GC / GR / LQM2MP_G0 / GH / LQM2HP_G0 / GS / GC / GH / LQM32P_G0 | LQH2MC_02 / LQH2HP_G0 / GR / LQH3NP_G0 |                                                                |                           |
| 1.1mm  | LQM2HP_J0 / JH                                                                   | LQH2HP_J0 / LQH3NP_J0 / LQH44P_J0      |                                                                |                           |
| 1.25mm |                                                                                  |                                        | LQM21D (22 to 47μH) / LQM21F_00 (4.7 to 47μH) / LQM21F_70 / 80 |                           |
| 1.4mm  |                                                                                  | LQH2HP_M0 / LQH3NP_M0 / MR             |                                                                |                           |
| 1.55mm |                                                                                  | LQH32P_N0 / NC                         |                                                                | LQH32C_53                 |
| 1.65mm |                                                                                  | LQH44P_P0                              |                                                                |                           |
| 1.8mm  |                                                                                  |                                        |                                                                | LQH31C                    |
| 2.0mm  |                                                                                  | LQH5BP_T0                              |                                                                | LQH32C_23 / 33            |
| 2.6mm  |                                                                                  | LQH43P_26                              |                                                                | LQH43C_03 / 33            |
| 4.7mm  |                                                                                  |                                        |                                                                | LQH55D / LQH66S           |

Which Thickness?

### Inductors for General Use

### RF Inductors

|        | Multilayer Type       | Wire Wound Type | Multilayer Type   | Film Type | Wire Wound Type  |
|--------|-----------------------|-----------------|-------------------|-----------|------------------|
| 0.2mm  |                       |                 |                   | LQP02T    |                  |
| 0.3mm  |                       |                 |                   | LQP03T    |                  |
| 0.35mm |                       |                 |                   | LQP15M    |                  |
| 0.4mm  |                       |                 |                   | LQP15T    | LQW03AW / LQW04A |
| 0.5mm  | LQB15N                |                 | LQG15HN / LQG15HS | LQP18M    | LQW15A           |
| 0.8mm  | LQB18N / LQM18N       |                 | LQG18H            |           | LQW18A           |
| 0.85mm | LQM21N (0.1 to 2.2μH) |                 |                   |           |                  |
| 0.9mm  |                       |                 |                   |           | LQW21H           |
| 1.25mm | LQM21N (2.7 to 4.7μH) |                 |                   |           |                  |
| 1.42mm |                       |                 |                   |           | LQW2BA           |
| 1.7mm  |                       |                 |                   |           | LQW2BH           |
| 1.8mm  |                       | LQH31M          |                   |           | LQH31H / LQW31H  |
| 1.83mm |                       |                 |                   |           | LQW2UA           |
| 2.0mm  |                       | LQH32M          |                   |           |                  |
| 2.6mm  |                       | LQH43M(N)       |                   |           |                  |
| 4.3mm  |                       | LQH44N          |                   |           |                  |



## Memo

## ● Inductors for Power Lines

|                              |     |
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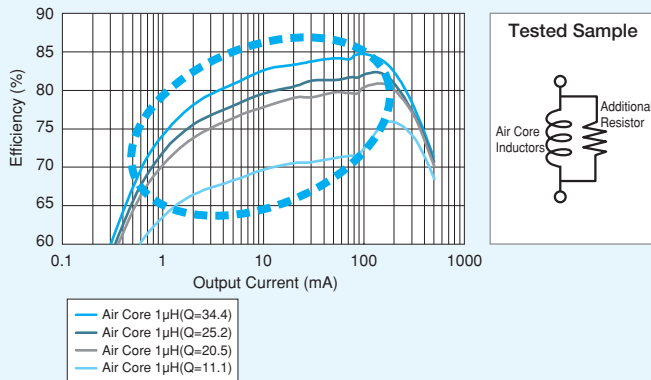
# Introduction of Power Inductors

## Effect of losses in power Inductors to voltage conversion efficiency

Important factor of power Inductors changes according to working condition of power supply.

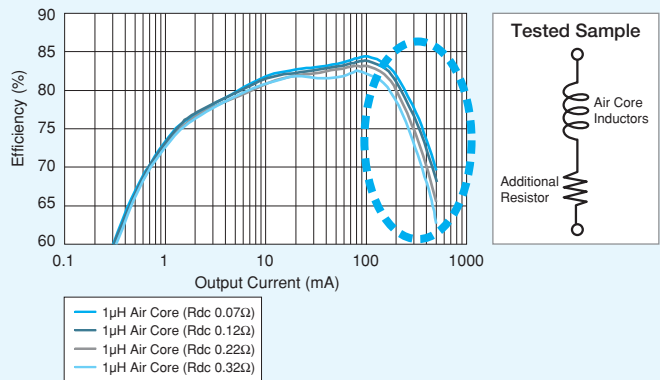
### ●Effect of Magnetic Loss

Magnetic loss affect to efficiency at low output condition.



### ●Effect of DC Resistance

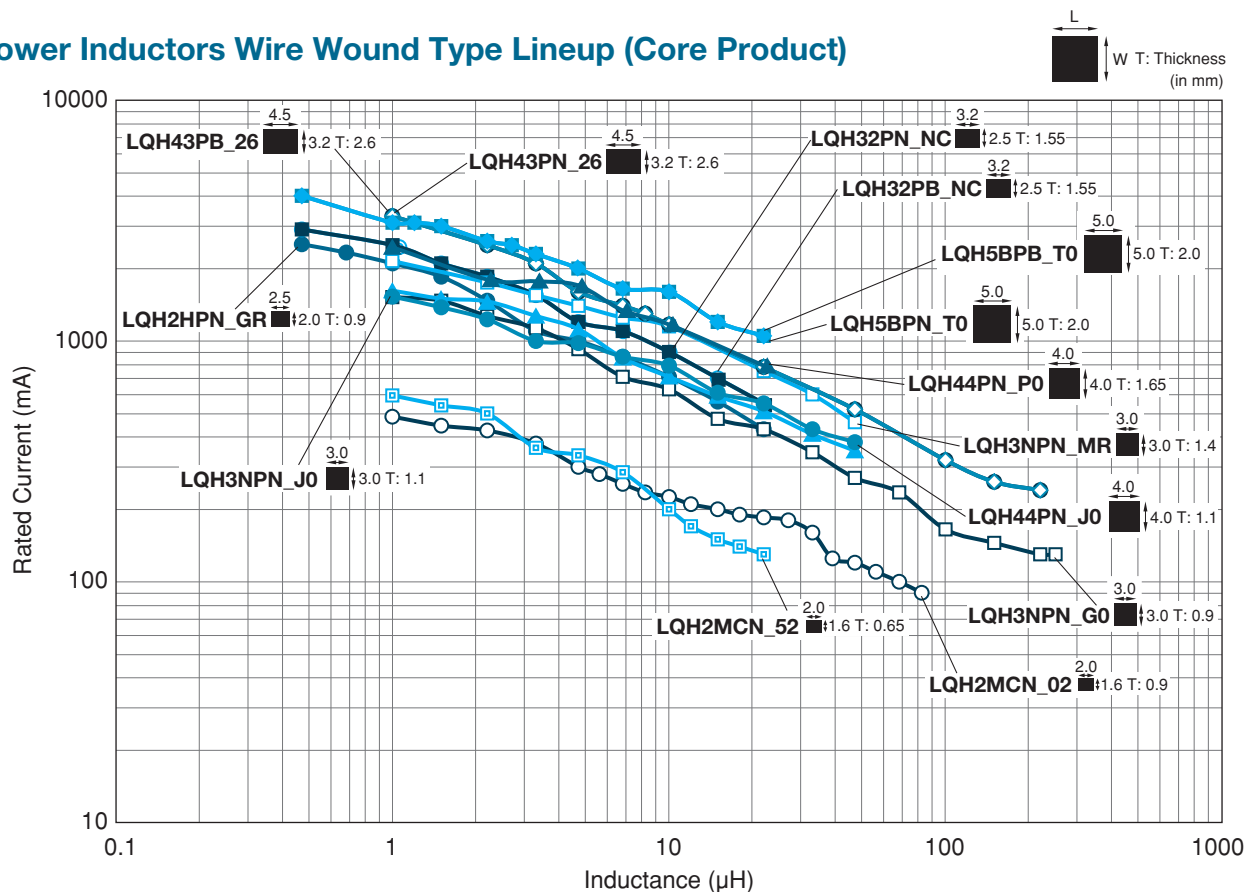
DC resistance affect to efficiency at high output condition.



We design inductors to match the application using the latest simulation technology.



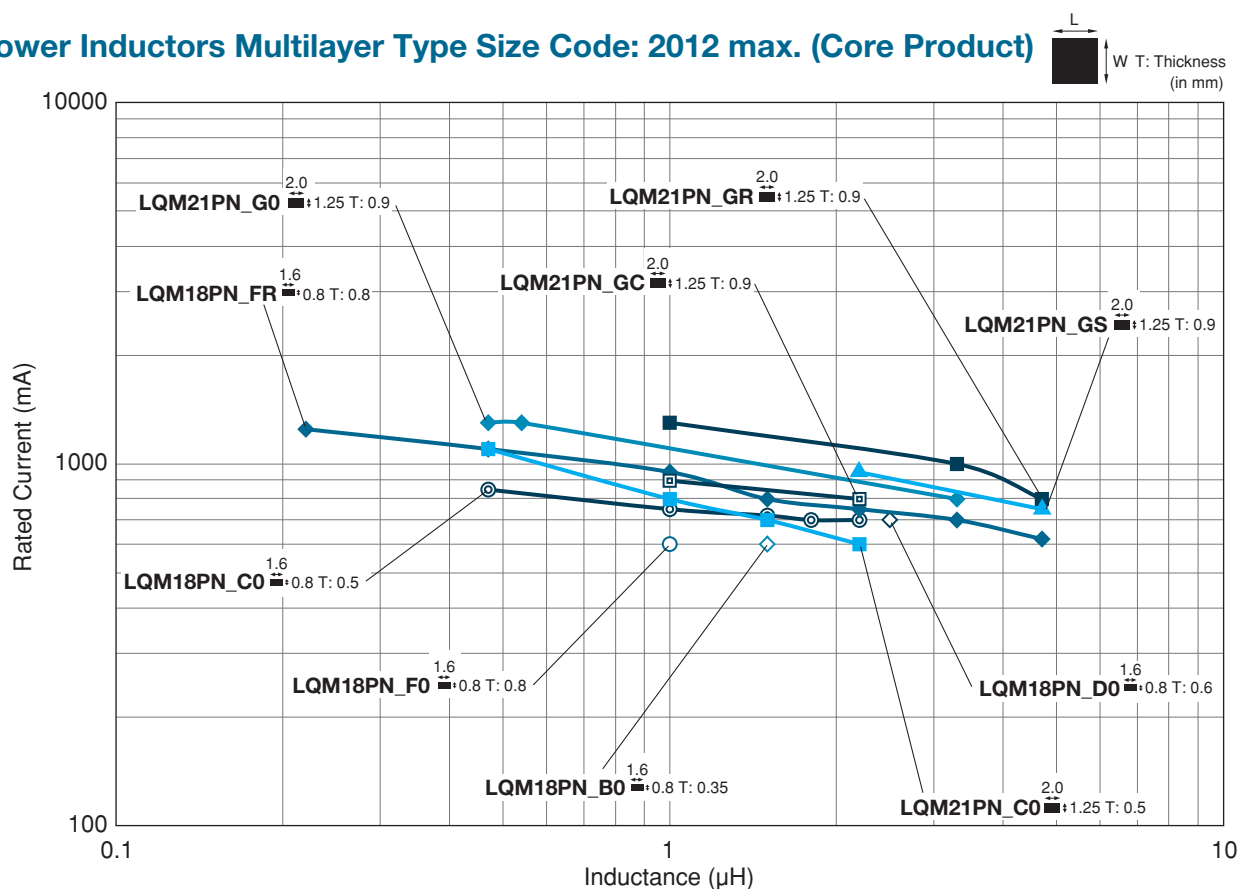
## ●Power Inductors Wire Wound Type Lineup (Core Product)



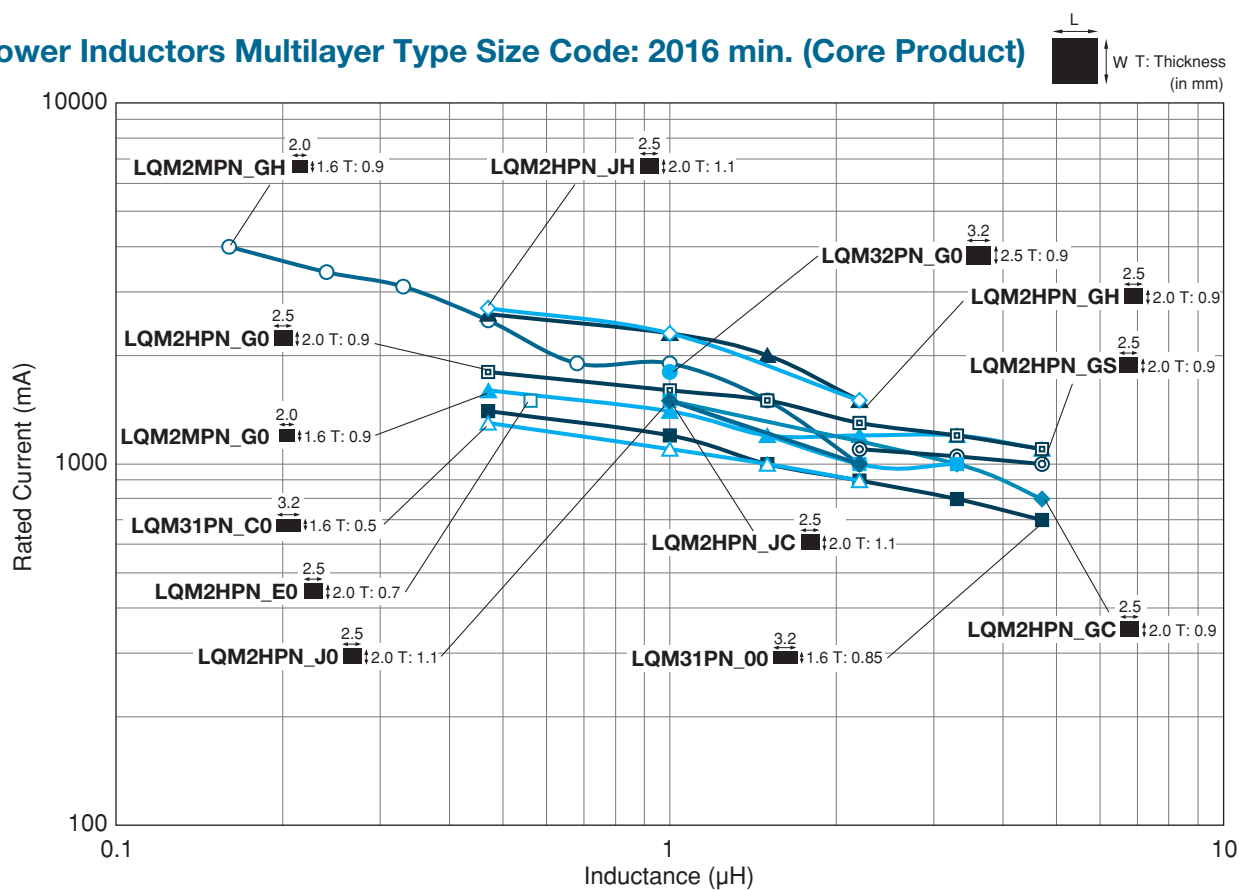
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O05E.pdf  
Nov.25,2013

# ●Power Inductors Multilayer Type Size Code: 2012 max. (Core Product)



# ●Power Inductors Multilayer Type Size Code: 2016 min. (Core Product)



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# Inductors for Power Lines Part Numbering

(Part Number)

|    |   |    |   |   |     |   |   |   |   |
|----|---|----|---|---|-----|---|---|---|---|
| LQ | M | 21 | P | N | R54 | M | G | 0 | D |
| ①  | ② | ③  | ④ | ⑤ | ⑥   | ⑦ | ⑧ | ⑨ | ⑩ |

## ① Product ID

| Product ID |                             |
|------------|-----------------------------|
| LQ         | Chip Inductors (Chip Coils) |

## ② Structure

| Code | Structure                      |
|------|--------------------------------|
| H    | Wire Wound Type (Ferrite Core) |
| W    |                                |
| M    | Multilayer Type (Ferrite Core) |

## ③ Dimensions (L×W)

| Code | Dimensions (L×W) | Size Code (in inch) |
|------|------------------|---------------------|
| 15   | 1.0×0.5mm        | 0402                |
| 18   | 1.6×0.8mm        | 0603                |
| 21   | 2.0×1.25mm       | 0805                |
| 2M   | 2.0×1.6mm        | 0806                |
| 2H   | 2.5×2.0mm        | 1008                |
| 3N   | 3.0×3.0mm        | 1212                |
| 31   | 3.2×1.6mm        | 1206                |
| 32   | 3.2×2.5mm        | 1210                |
| 43   | 4.5×3.2mm        | 1812                |
| 44   | 4.0×4.0mm        | 1515                |
| 5B   | 5.0×5.0mm        | 2020                |
| 55   | 5.7×5.0mm        | 2220                |
| 66   | 6.3×6.3mm        | 2525                |

## ④ Applications and Characteristics

| Code | Series  | Applications and Characteristics          |
|------|---------|-------------------------------------------|
| D    | LQM     | for Choke (Low-current DC Power Supplies) |
| F    |         | for Choke (DC Power Supplies)             |
| D    | LQH     | for Choke                                 |
| S    |         | for Choke (Magnetically Shielded Type)    |
| C    | LQH/LQW | for Choke (Coating Type)                  |
| P    | LQM/LQH | for Power Line                            |

## ⑤ Category

| Code | Category                       |
|------|--------------------------------|
| N    | Standard Type                  |
| B    | Special Feature Classification |

## ⑥ Inductance

Expressed by three-digit alphanumerics. The unit is micro-henry (μH). The first and second figures are significant digits, and the third figure expresses the number of zeros that follow the two figures. If there is a decimal point, it is expressed by the capital letter "R." In this case, all figures are significant digits. If inductance is less than 0.1μH, the inductance code is expressed by a combination of two figures and the capital letter "N," and the unit of inductance is nano-henry (nH). The capital letter "N" indicates the unit of "nH," and also expresses a decimal point. In this case, all figures are significant digits.

## ⑦ Inductance Tolerance

| Code | Inductance Tolerance |
|------|----------------------|
| D    | ±0.5nH               |
| J    | ±5%                  |
| K    | ±10%                 |
| M    | ±20%                 |
| N    | ±30%                 |

## ⑧ Features (Except for LQH□□P/LQM□□P)

| Code | Features                              | Series         |
|------|---------------------------------------|----------------|
| 0    | Standard Type                         | LQM/LQH*1 /LQW |
| 1    | Low DC Resistance                     | LQW            |
| 2    | Standard Type                         | LQH32C         |
| 3    | Low DC Resistance                     | LQH32C/43CN    |
| 5    | Low Profile Type                      | LQH2MC/32C     |
| 7    | Large Current Type                    | LQM21F         |
| 8    | Low DC Resistance /Large Current Type |                |

\*1 Except for LQH32 Series

## ⑨ Thickness (LQH□□P/LQM□□P Only • Except for LQH43P)

| Code | Dimensions (T) |
|------|----------------|
| B    | 0.35mm         |
| C    | 0.5mm          |
| D    | 0.6mm          |
| E    | 0.7mm          |
| F    | 0.8mm          |
| 0    | 0.85mm         |
| G    | 0.9mm          |
| J    | 1.1mm          |
| M    | 1.4mm          |
| N    | 1.55mm         |
| P    | 1.65mm         |
| T    | 2.0mm          |

## ⑩ Electrode (Except for LQH□□P/LQM□□P)

•Lead (Pb) Free

| Code | Electrode | Series                  |
|------|-----------|-------------------------|
| 0    | Sn        | LQM/LQW                 |
| 2    |           | LQH2MC                  |
| 3    | LF Solder | LQH (Except for LQH2MC) |

## ⑪ Specification (LQH□□P/LQM□□P Only • Except for LQH43P)

| Code | Specification                                                              |
|------|----------------------------------------------------------------------------|
| 0/S  | Standard Type                                                              |
| C    | Good Bias Current Characteristics Type                                     |
| H    | High Spec Type (Low DC Resistance/ Good Bias Current Characteristics Type) |
| R    | Low DC Resistance Type                                                     |

Continued on the following page. 

## ⑧⑨ Thickness (LQH43P Only)

| Code | Dimensions (T) |
|------|----------------|
| 26   | 2.6mm          |

## ⑩ Packaging

| Code | Packaging                     | Series                                     |
|------|-------------------------------|--------------------------------------------|
| K    | Embossed Taping (ø330mm Reel) | LQH*1 /LQM21*2                             |
| F    |                               | LQH3NP_MR                                  |
| L    | Embossed Taping (ø180mm Reel) | LQH*5/LQM18P/LQM21*2 /LQM31P/LQM2HP/LQM2MP |
| E    |                               | LQH3NP_MR                                  |
| B    | Bulk                          | LQH2MC/LQM/LQW                             |
| J    | Paper Taping (ø330mm Reel)    | LQM18/LQM21*3                              |
| D    | Paper Taping (ø180mm Reel)    | LQM18/LQM21*4 /LQW                         |

\*1 Except for LQH2MC/LQH2HP\_G0/LQH3NP/LQH43C

\*2 LQM21D(22 - 47μH)/LQM21F(4.7 - 47μH)

\*3 LQM21D(1.0 - 10μH)/LQM21F(1.0 - 2.2μH)

\*4 LQM21D(1.0 - 10μH)/LQM21F(1.0 - 2.2μH)/LQM21P

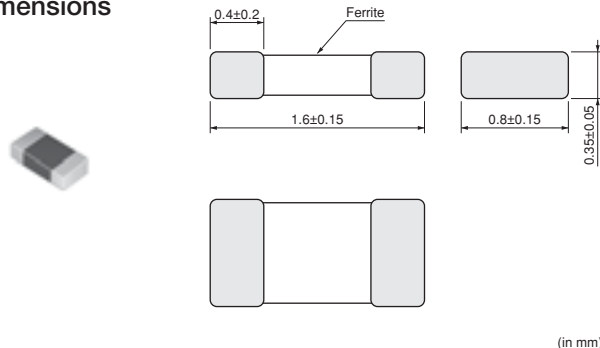
\*5 Except for LQH3NP\_MR

# LQM18PN\_B0

Series 0603/1608 (inch/mm)

Size Code 0603 (1608) in inch (in mm), 0.4mm max. Thickness

## Appearance/Dimensions



## Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| L    | ø180mm Embossed Taping | 4000             |
| B    | Packing in Bulk        | 1000             |



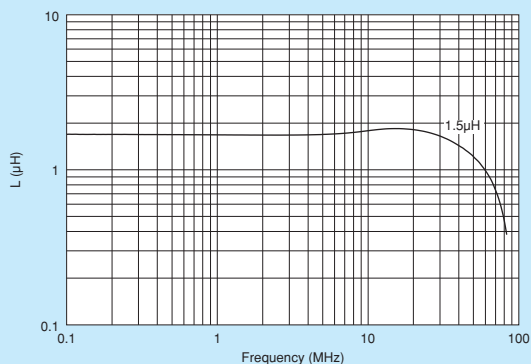
Refer to pages 102 to 106 for mounting information.

## Rated Value (□: packaging code)

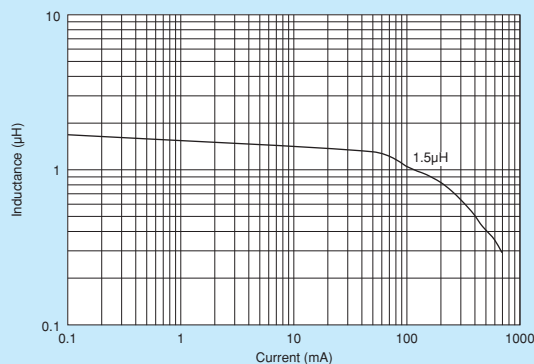
| Part Number    | Inductance | Inductance Test Frequency | Rated Current | DC Resistance | Self-Resonance Frequency (min.) |     |
|----------------|------------|---------------------------|---------------|---------------|---------------------------------|-----|
| LQM18PN1R5NB0□ | 1.5μH ±30% | 1MHz                      | 600mA         | 0.35Ω ±25%    | 50MHz                           | Kit |

Class of Magnetic Shield: Magnetic shield of ferrite    Operating Temperature Range: -55°C~+125°C

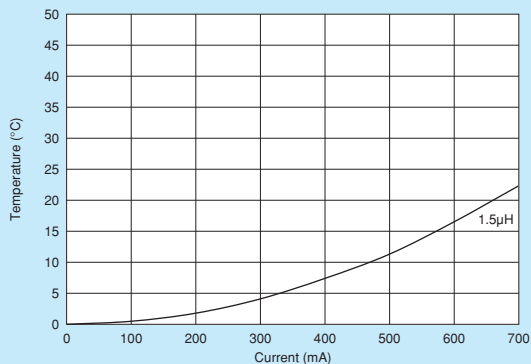
## Inductance-Frequency Characteristics (Typ.)



## Inductance-Current Characteristics (Typ.)



## Temperature Rise Characteristics (Typ.)

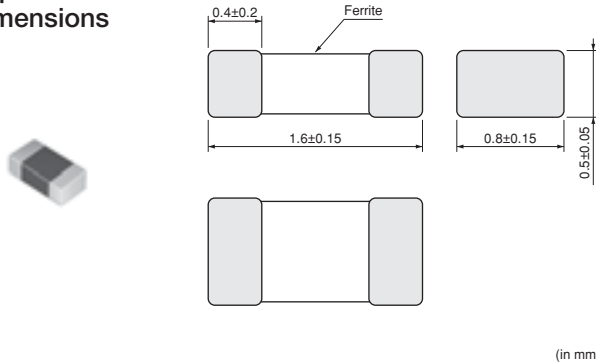


# LQM18PN\_C0

Series 0603/1608 (inch/mm)

Size Code 0603 (1608) in inch (in mm), 0.55mm max. Thickness

## ■ Appearance/Dimensions



## ■ Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| L    | ø180mm Embossed Taping | 4000             |
| B    | Packing in Bulk        | 1000             |



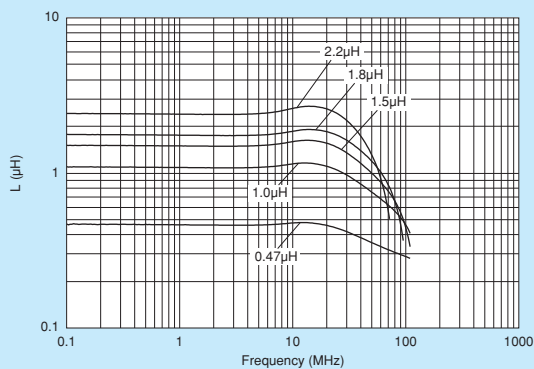
Refer to pages 102 to 106 for mounting information.

## ■ Rated Value (□: packaging code)

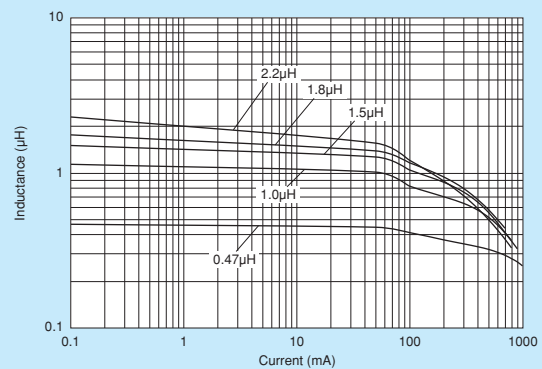
| Part Number    | Inductance  | Inductance Test Frequency | Rated Current | DC Resistance | Self-Resonance Frequency (min.) |     |
|----------------|-------------|---------------------------|---------------|---------------|---------------------------------|-----|
| LQM18PNR47NC0□ | 0.47μH ±30% | 1MHz                      | 850mA         | 0.15 Ω ±25%   | 50MHz                           | New |
| LQM18PN1R0NC0□ | 1.0μH ±30%  | 1MHz                      | 750mA         | 0.20 Ω ±25%   | 50MHz                           | New |
| LQM18PN1R5NC0□ | 1.5μH ±30%  | 1MHz                      | 720mA         | 0.22 Ω ±25%   | 50MHz                           | New |
| LQM18PN1R8NC0□ | 1.8μH ±30%  | 1MHz                      | 700mA         | 0.24 Ω ±25%   | 50MHz                           | Kit |
| LQM18PN2R2NC0□ | 2.2μH ±30%  | 1MHz                      | 700mA         | 0.24 Ω ±25%   | 50MHz                           | New |

Class of Magnetic Shield: Magnetic shield of ferrite Operating Temperature Range: -55°C~+125°C

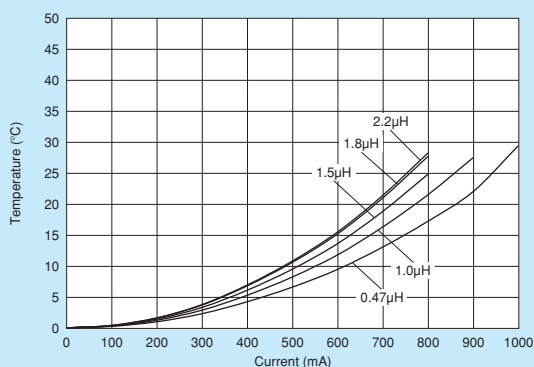
## ■ Inductance-Frequency Characteristics (Typ.)



## ■ Inductance-Current Characteristics (Typ.)



## ■ Temperature Rise Characteristics (Typ.)



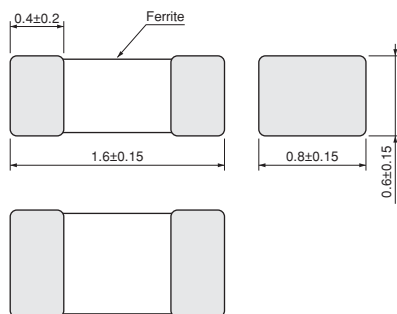
△Note • Please read rating and △CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.  
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# LQM18PN\_D0

Series 0603/1608 (inch/mm)

Size Code 0603 (1608) in inch (in mm), 0.75mm max. Thickness

## Appearance/Dimensions



(in mm)

## Packaging

| Code | Packaging           | Minimum Quantity |
|------|---------------------|------------------|
| D    | ø180mm Paper Taping | 4000             |
| B    | Packing in Bulk     | 1000             |



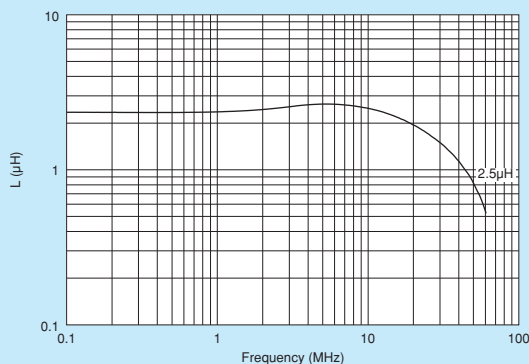
Refer to pages 102 to 106 for mounting information.

## Rated Value (□: packaging code)

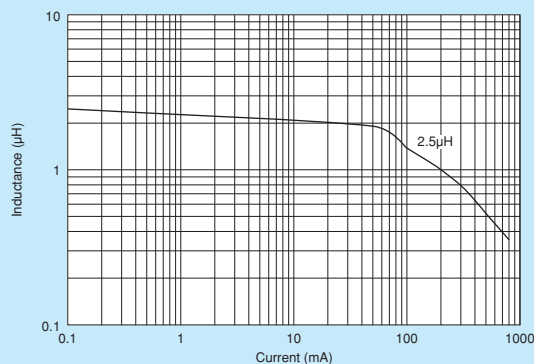
| Part Number    | Inductance | Inductance Test Frequency | Rated Current | DC Resistance | Self-Resonance Frequency (min.) |     |
|----------------|------------|---------------------------|---------------|---------------|---------------------------------|-----|
| LQM18PN2R5ND0□ | 2.5μH ±30% | 1MHz                      | 700mA         | 0.24Ω ±25%    | 60MHz                           | Kit |

Class of Magnetic Shield: Magnetic shield of ferrite Operating Temperature Range: -40°C~+85°C

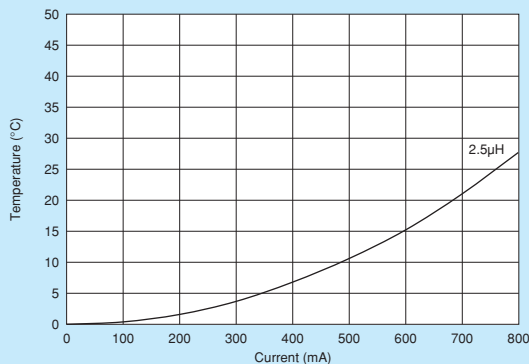
## Inductance-Frequency Characteristics (Typ.)



## Inductance-Current Characteristics (Typ.)



## Temperature Rise Characteristics (Typ.)

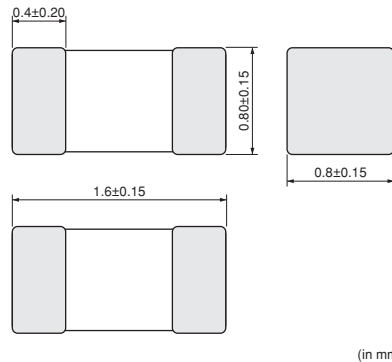


# LQM18PN\_F0

Series 0603/1608 (inch/mm)

Size Code 0603 (1608) in inch (in mm), 0.95mm max. Thickness

## Appearance/Dimensions



(in mm)

## Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| L    | ø180mm Embossed Taping | 4000             |
| B    | Packing in Bulk        | 1000             |



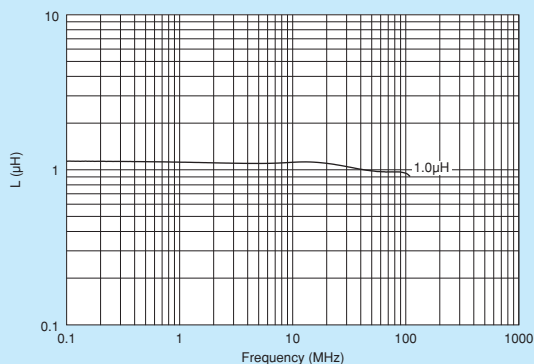
Refer to pages 102 to 106 for mounting information.

## Rated Value (□: packaging code)

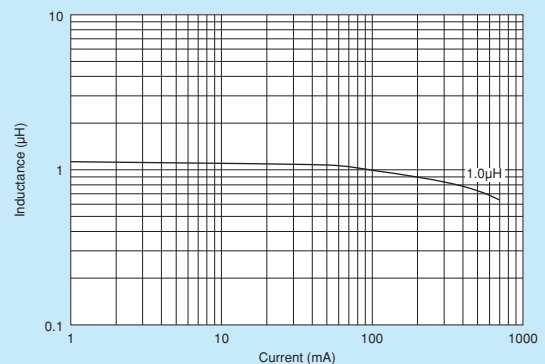
| Part Number    | Inductance                | Inductance Test Frequency | Rated Current | DC Resistance         | Self-Resonance Frequency (min.) |     |
|----------------|---------------------------|---------------------------|---------------|-----------------------|---------------------------------|-----|
| LQM18PN1R0NF0□ | $1.0\mu\text{H} \pm 30\%$ | 1MHz                      | 600mA         | $0.28\Omega \pm 25\%$ | 50MHz                           | Kit |

Class of Magnetic Shield: Magnetic shield of ferrite    Operating Temperature Range:  $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$ 

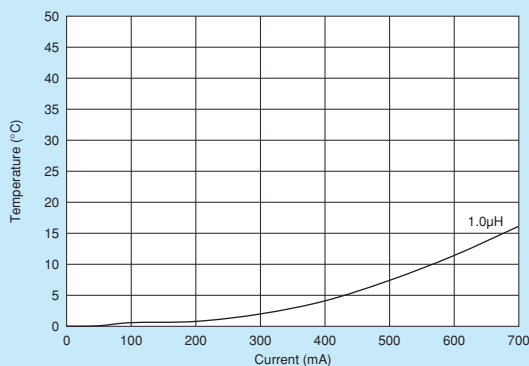
## Inductance-Frequency Characteristics (Typ.)



## Inductance-Current Characteristics (Typ.)



## Temperature Rise Characteristics (Typ.)

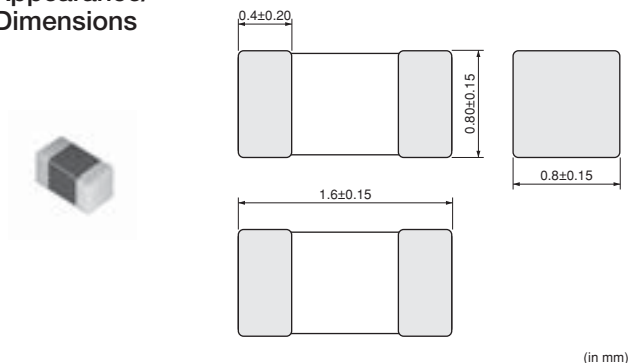


# LQM18PN\_FR

Series 0603/1608 (inch/mm)

## Low DC Resistance Type

### ■ Appearance/Dimensions



### ■ Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| L    | ø180mm Embossed Taping | 4000             |
| B    | Packing in Bulk        | 1000             |



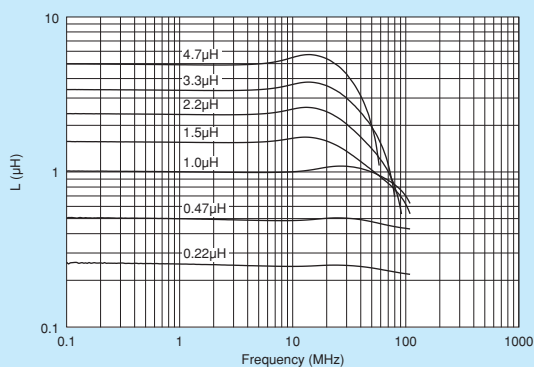
Refer to pages 102 to 106 for mounting information.

### ■ Rated Value (□: packaging code)

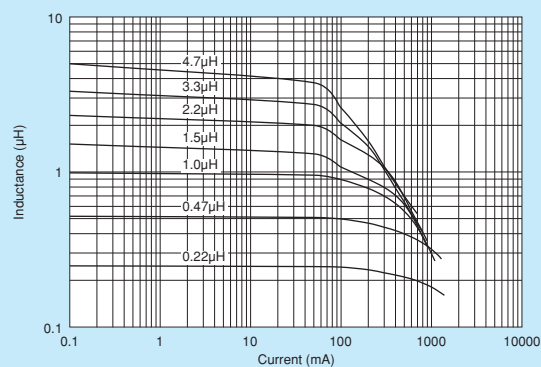
| Part Number    | Inductance  | Inductance Test Frequency | Rated Current | DC Resistance | Self-Resonance Frequency (min.) |     |
|----------------|-------------|---------------------------|---------------|---------------|---------------------------------|-----|
| LQM18PNR22NFR□ | 0.22μH ±30% | 1MHz                      | 1250mA        | 0.11 Ω ±25%   | 100MHz                          | Kit |
| LQM18PNR47NFR□ | 0.47μH ±30% | 1MHz                      | 1100mA        | 0.15 Ω ±25%   | 100MHz                          | Kit |
| LQM18PN1R0MFR□ | 1.0μH ±20%  | 1MHz                      | 950mA         | 0.20 Ω ±25%   | 100MHz                          | Kit |
| LQM18PN1R5MFR□ | 1.5μH ±20%  | 1MHz                      | 800mA         | 0.23 Ω ±25%   | 100MHz                          | Kit |
| LQM18PN2R2MFR□ | 2.2μH ±20%  | 1MHz                      | 750mA         | 0.30 Ω ±25%   | 70MHz                           | Kit |
| LQM18PN3R3MFR□ | 3.3μH ±20%  | 1MHz                      | 700mA         | 0.35 Ω ±25%   | 60MHz                           | Kit |
| LQM18PN4R7MFR□ | 4.7μH ±20%  | 1MHz                      | 620mA         | 0.44 Ω ±25%   | 40MHz                           | Kit |

Class of Magnetic Shield: Magnetic shield of ferrite Operating Temperature Range: -40°C~+85°C

### ■ Inductance-Frequency Characteristics (Typ.)



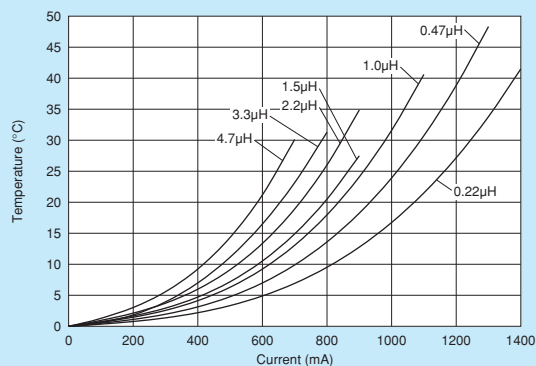
### ■ Inductance-Current Characteristics (Typ.)



Continued on the following page.

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### ■ Temperature Rise Characteristics (Typ.)

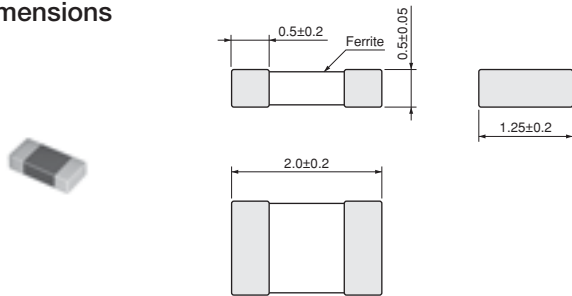


# LQM21PN\_C0

Series 0805/2012 (inch/mm)

Size Code 0805 (2012) in inch (in mm), 0.55mm max. Thickness

## ■ Appearance/Dimensions



(in mm)

## ■ Packaging

| Code | Packaging           | Minimum Quantity |
|------|---------------------|------------------|
| D    | ø180mm Paper Taping | 4000             |
| B    | Packing in Bulk     | 1000             |



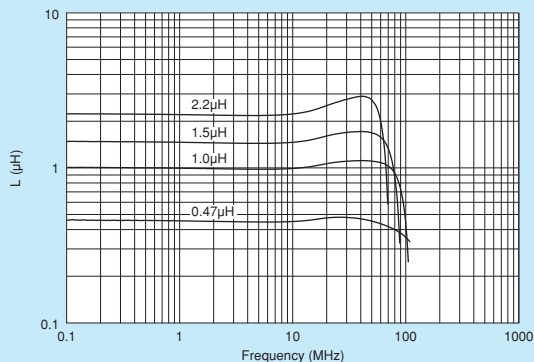
Refer to pages 102 to 106 for mounting information.

## ■ Rated Value (□: packaging code)

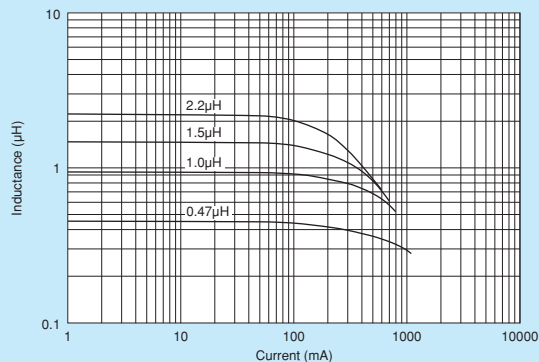
| Part Number    | Inductance  | Inductance Test Frequency | Rated Current | DC Resistance | Self-Resonance Frequency (min.) |     |
|----------------|-------------|---------------------------|---------------|---------------|---------------------------------|-----|
| LQM21PNR47MC0□ | 0.47μH ±20% | 1MHz                      | 1100mA        | 0.12Ω ±25%    | 100MHz                          | Kit |
| LQM21PN1R0MC0□ | 1.0μH ±20%  | 1MHz                      | 800mA         | 0.19Ω ±25%    | 90MHz                           | Kit |
| LQM21PN1R5MC0□ | 1.5μH ±20%  | 1MHz                      | 700mA         | 0.26Ω ±25%    | 70MHz                           | Kit |
| LQM21PN2R2MC0□ | 2.2μH ±20%  | 1MHz                      | 600mA         | 0.34Ω ±25%    | 50MHz                           | Kit |

Class of Magnetic Shield: Magnetic shield of ferrite Operating Temperature Range: -55°C~+125°C

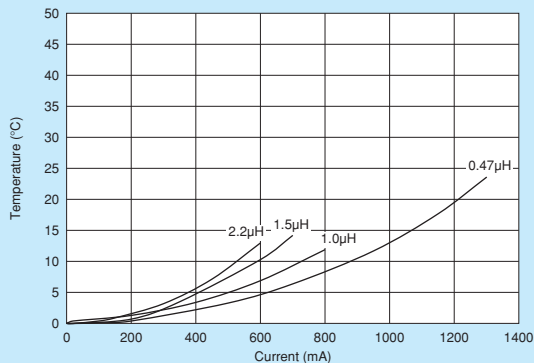
## ■ Inductance-Frequency Characteristics (Typ.)



## ■ Inductance-Current Characteristics (Typ.)



## ■ Temperature Rise Characteristics (Typ.)



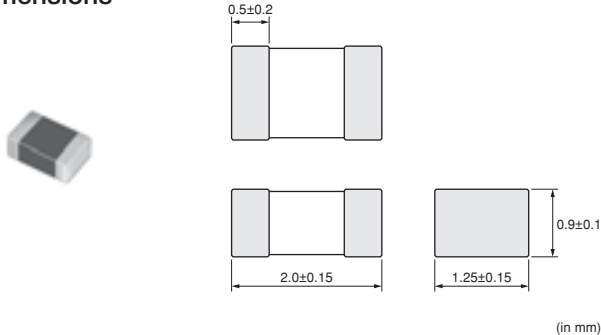
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# LQM21PN\_G0

Series 0805/2012 (inch/mm)

Size Code 0805 (2012) in inch (in mm), 1.0mm max. Thickness

## Appearance/Dimensions



## Packaging

| Code | Packaging           | Minimum Quantity |
|------|---------------------|------------------|
| D    | ø180mm Paper Taping | 4000             |
| B    | Packing in Bulk     | 1000             |



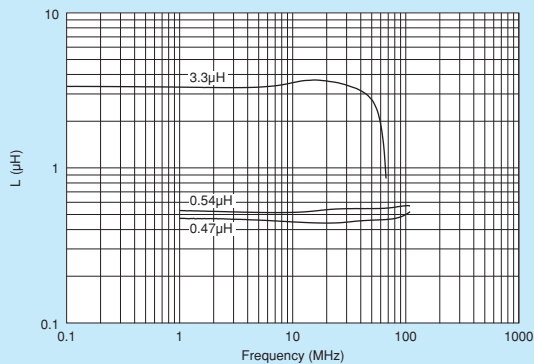
Refer to pages 102 to 106 for mounting information.

## Rated Value (□: packaging code)

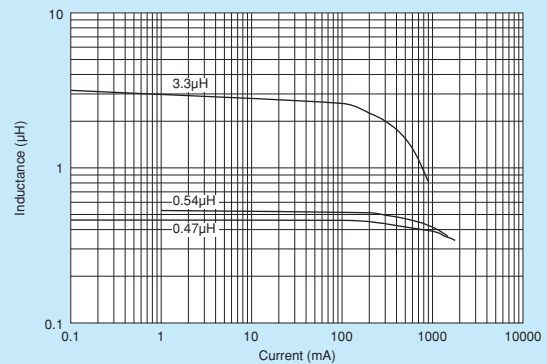
| Part Number    | Inductance  | Inductance Test Frequency | Rated Current | DC Resistance | Self-Resonance Frequency (min.) |     |
|----------------|-------------|---------------------------|---------------|---------------|---------------------------------|-----|
| LQM21PNR47MG0□ | 0.47μH ±20% | 1MHz                      | 1300mA        | 0.075Ω ±25%   | 100MHz                          | Kit |
| LQM21PNR54MG0□ | 0.54μH ±20% | 1MHz                      | 1300mA        | 0.075Ω ±25%   | 100MHz                          | Kit |
| LQM21PN3R3MG0□ | 3.3μH ±20%  | 1MHz                      | 800mA         | 0.165Ω ±25%   | 30MHz                           | Kit |
| LQM21PN3R3NG0□ | 3.3μH ±30%  | 1MHz                      | 800mA         | 0.165Ω ±25%   | 30MHz                           |     |

Class of Magnetic Shield: Magnetic shield of ferrite    Operating Temperature Range: -55°C~+125°C

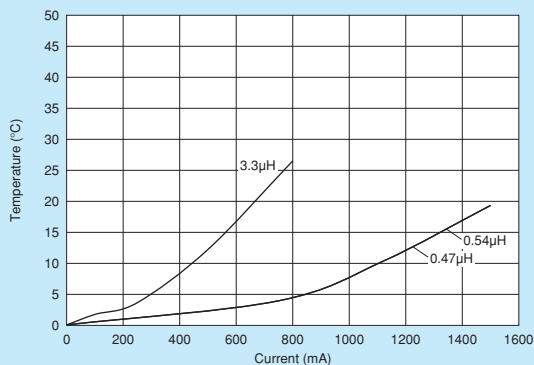
## Inductance-Frequency Characteristics (Typ.)



## Inductance-Current Characteristics (Typ.)



## Temperature Rise Characteristics (Typ.)

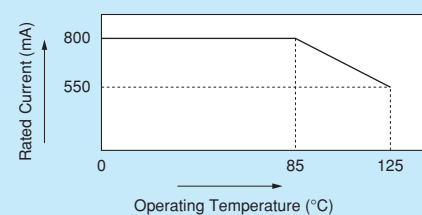


## Derating of Rated Current

In operating temperature exceeding +85°C, derating of current is necessary for LQM21PN3R3MG0/LQM21PN3R3NG0. Please apply the derating curve shown in the chart according to the operating temperature.

### Derating of Rated Current

(LQM21PN3R3MG0/LQM21PN3R3NG0)



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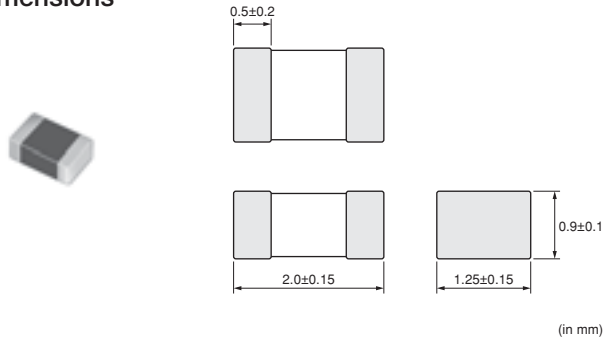
## Multilayer Type (Ferrite Core)

# LQM21PN\_GS

Series 0805/2012 (inch/mm)

Size Code 0805 (2012) in inch (in mm), 1.0mm max. Thickness

## Appearance/Dimensions



## Packaging

| Code | Packaging           | Minimum Quantity |
|------|---------------------|------------------|
| D    | ø180mm Paper Taping | 4000             |
| B    | Packing in Bulk     | 1000             |



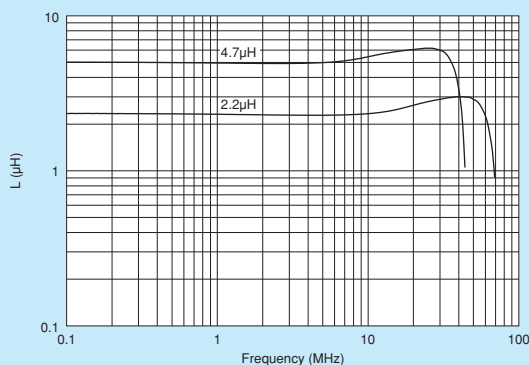
Refer to pages 102 to 106 for mounting information.

## Rated Value (□: packaging code)

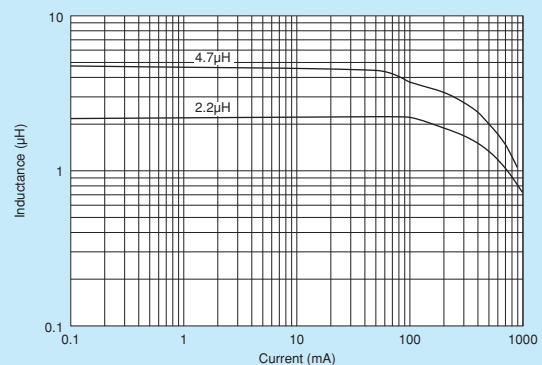
| Part Number    | Inductance | Inductance Test Frequency | Rated Current | DC Resistance | Self-Resonance Frequency (min.) |     |
|----------------|------------|---------------------------|---------------|---------------|---------------------------------|-----|
| LQM21PN2R2MGS□ | 2.2μH ±20% | 1MHz                      | 950mA         | 0.180Ω ±25%   | 40MHz                           | Kit |
| LQM21PN4R7MGS□ | 4.7μH ±20% | 1MHz                      | 750mA         | 0.290Ω ±25%   | 20MHz                           | Kit |

Class of Magnetic Shield: Magnetic shield of ferrite    Operating Temperature Range: -40°C~+85°C

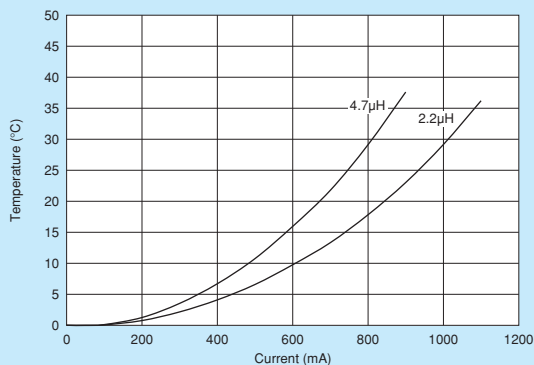
## Inductance-Frequency Characteristics (Typ.)



## Inductance-Current Characteristics (Typ.)



## Temperature Rise Characteristics (Typ.)



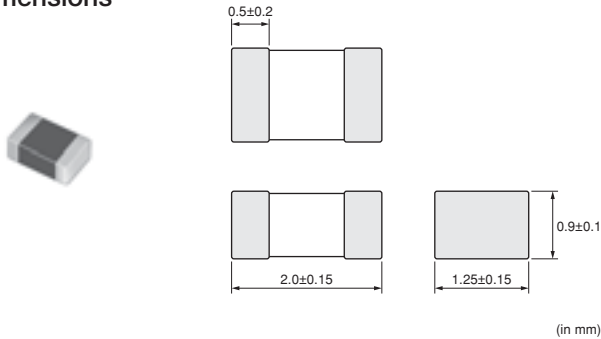
⚠Note • Please read rating and ⚠CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.  
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# LQM21PN\_GC

Series 0805/2012 (inch/mm)

## Bias Current Characteristics Improved

### ■ Appearance/Dimensions



### ■ Packaging

| Code | Packaging           | Minimum Quantity |
|------|---------------------|------------------|
| D    | ø180mm Paper Taping | 4000             |
| B    | Packing in Bulk     | 1000             |



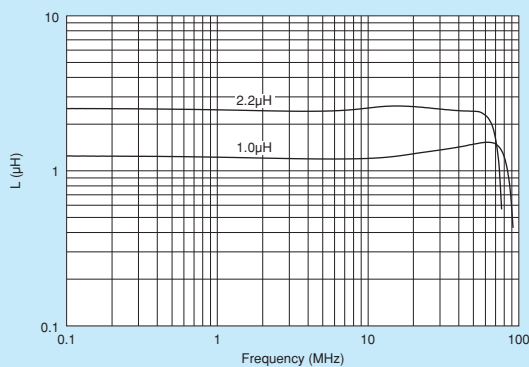
Refer to pages 102 to 106 for mounting information.

### ■ Rated Value (□: packaging code)

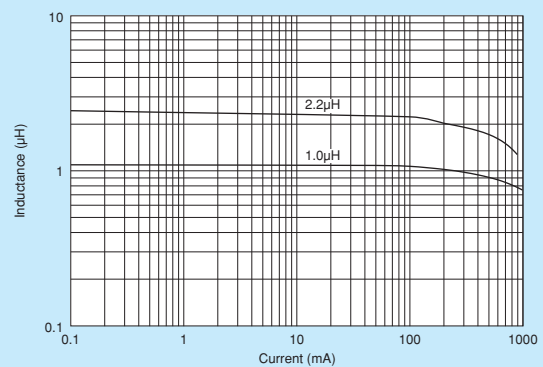
| Part Number    | Inductance | Inductance Test Frequency | Rated Current | DC Resistance | Self-Resonance Frequency (min.) |     |
|----------------|------------|---------------------------|---------------|---------------|---------------------------------|-----|
| LQM21PN1R0NGC□ | 1.0μH ±30% | 1MHz                      | 900mA         | 0.10Ω ±25%    | 50MHz                           | Kit |
| LQM21PN2R2NGC□ | 2.2μH ±30% | 1MHz                      | 800mA         | 0.23Ω ±25%    | 40MHz                           | Kit |

Class of Magnetic Shield: Magnetic shield of ferrite    Operating Temperature Range: -55°C~+125°C

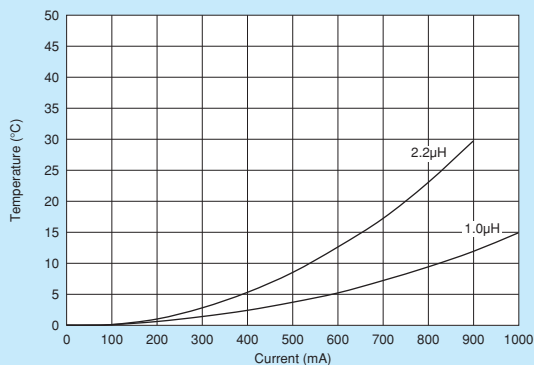
### ■ Inductance-Frequency Characteristics (Typ.)



### ■ Inductance-Current Characteristics (Typ.)



### ■ Temperature Rise Characteristics (Typ.)

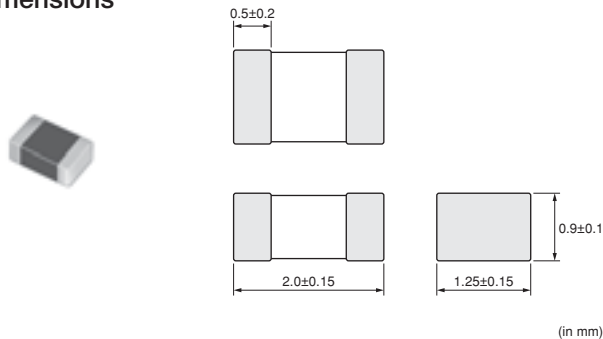


# LQM21PN\_GR

Series 0805/2012 (inch/mm)

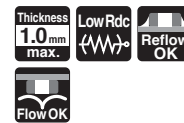
## Low DC Resistance Type

### ■ Appearance/Dimensions



### ■ Packaging

| Code | Packaging           | Minimum Quantity |
|------|---------------------|------------------|
| D    | ø180mm Paper Taping | 4000             |
| B    | Packing in Bulk     | 1000             |



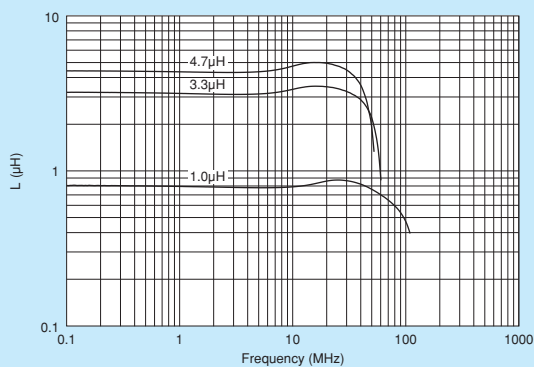
Refer to pages 102 to 106 for mounting information.

### ■ Rated Value (□: packaging code)

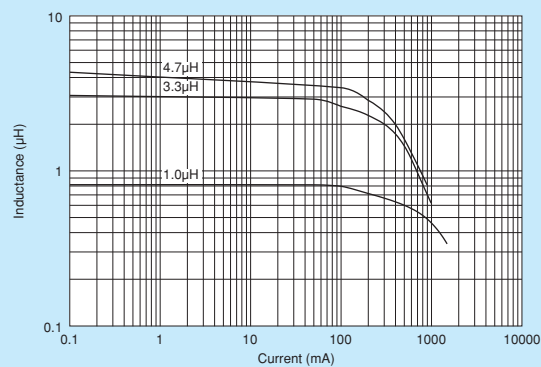
| Part Number    | Inductance | Inductance Test Frequency | Rated Current | DC Resistance | Self-Resonance Frequency (min.) |     |
|----------------|------------|---------------------------|---------------|---------------|---------------------------------|-----|
| LQM21PN1R0NGR□ | 1.0μH ±30% | 1MHz                      | 1300mA        | 0.066 Ω ±25%  | 50MHz                           | Kit |
| LQM21PN3R3MGR□ | 3.3μH ±20% | 1MHz                      | 1000mA        | 0.150 Ω ±25%  | 30MHz                           | Kit |
| LQM21PN3R3NGR□ | 3.3μH ±30% | 1MHz                      | 1000mA        | 0.150 Ω ±25%  | 30MHz                           |     |
| LQM21PN4R7MGR□ | 4.7μH ±20% | 1MHz                      | 800mA         | 0.23 Ω ±25%   | 30MHz                           | Kit |
| LQM21PN4R7NGR□ | 4.7μH ±30% | 1MHz                      | 800mA         | 0.23 Ω ±25%   | 30MHz                           |     |

Class of Magnetic Shield: Magnetic shield of ferrite Operating Temperature Range: -55°C~+125°C

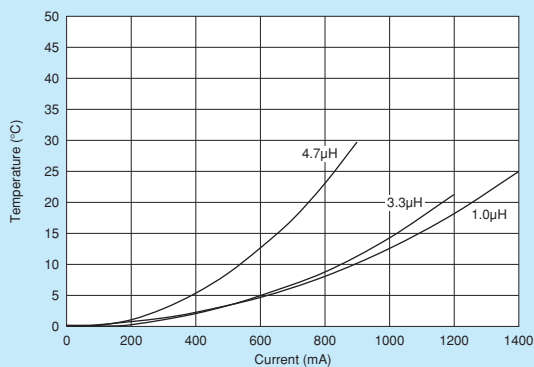
### ■ Inductance-Frequency Characteristics (Typ.)



### ■ Inductance-Current Characteristics (Typ.)



### ■ Temperature Rise Characteristics (Typ.)



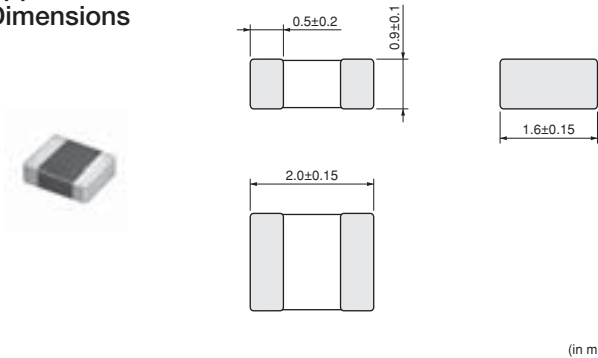
⚠Note • Please read rating and ⚠CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.  
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# LQM2MPN\_G0

Series 0806/2016 (inch/mm)

Size Code 0806 (2016) in inch (in mm), 1.0mm max. Thickness

## ■ Appearance/Dimensions



## ■ Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| L    | ø180mm Embossed Taping | 3000             |
| B    | Packing in Bulk        | 1000             |



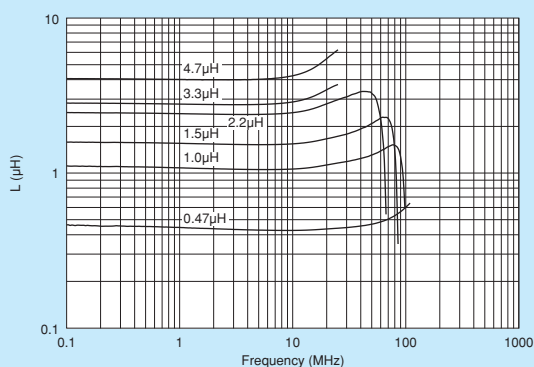
Refer to pages 102 to 106 for mounting information.

## ■ Rated Value (□: packaging code)

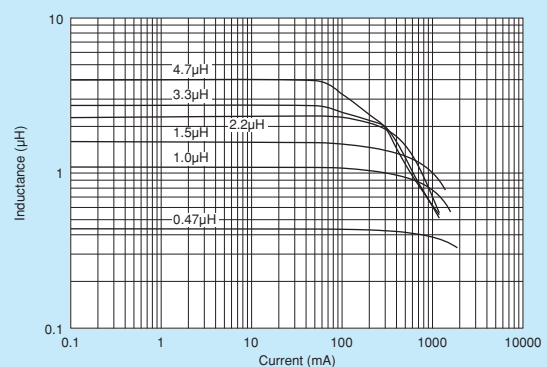
| Part Number    | Inductance  | Inductance Test Frequency | Rated Current | DC Resistance | Self-Resonance Frequency (min.) |     |
|----------------|-------------|---------------------------|---------------|---------------|---------------------------------|-----|
| LQM2MPNR47MG0□ | 0.47μH ±20% | 1MHz                      | 1600mA        | 0.060Ω ±25%   | 100MHz                          | Kit |
| LQM2MPNR47NG0□ | 0.47μH ±30% | 1MHz                      | 1600mA        | 0.060Ω ±25%   | 100MHz                          |     |
| LQM2MPN1R0NG0□ | 1.0μH ±30%  | 1MHz                      | 1400mA        | 0.085Ω ±25%   | 60MHz                           | Kit |
| LQM2MPN1R5MG0□ | 1.5μH ±20%  | 1MHz                      | 1200mA        | 0.11Ω ±25%    | 50MHz                           | Kit |
| LQM2MPN1R5NG0□ | 1.5μH ±30%  | 1MHz                      | 1200mA        | 0.11Ω ±25%    | 50MHz                           |     |
| LQM2MPN2R2MG0□ | 2.2μH ±20%  | 1MHz                      | 1200mA        | 0.11Ω ±25%    | 40MHz                           | Kit |
| LQM2MPN2R2NG0□ | 2.2μH ±30%  | 1MHz                      | 1200mA        | 0.11Ω ±25%    | 40MHz                           |     |
| LQM2MPN3R3NG0□ | 3.3μH ±30%  | 1MHz                      | 1200mA        | 0.12Ω ±25%    | 30MHz                           | Kit |
| LQM2MPN4R7MG0□ | 4.7μH ±20%  | 1MHz                      | 1100mA        | 0.14Ω ±25%    | 20MHz                           | Kit |
| LQM2MPN4R7NG0□ | 4.7μH ±30%  | 1MHz                      | 1100mA        | 0.14Ω ±25%    | 20MHz                           |     |

Class of Magnetic Shield: Magnetic shield of ferrite    Operating Temperature Range: -55°C~+125°C

## ■ Inductance-Frequency Characteristics (Typ.)



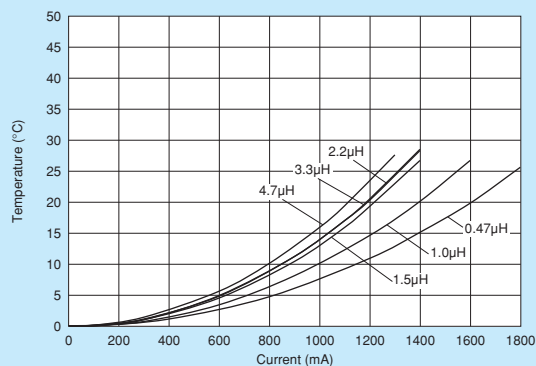
## ■ Inductance-Current Characteristics (Typ.)



Continued on the following page.

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### ■ Temperature Rise Characteristics (Typ.)

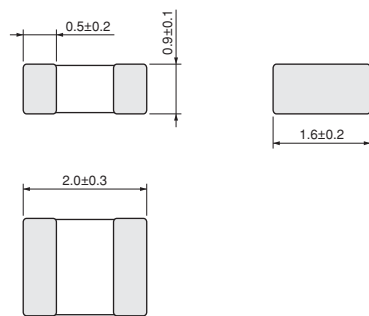


# LQM2MPN\_GH

Series 0806/2016 (inch/mm)

High Spec Type (Low DC Resistance / Good Bias Current Characteristics Type)

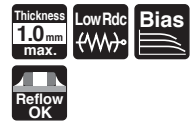
## Appearance/Dimensions



(in mm)

## Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| L    | ø180mm Embossed Taping | 3000             |



Refer to pages 102 to 106 for mounting information.

## Rated Value (□: packaging code)

| Part Number    | Inductance  | Rated Current <sup>*1*3</sup><br>(Based on Inductance Change) | Rated Current <sup>*2*3</sup><br>(Based on Temperature Rise) | Max. of DC Resistance    | Self-Resonance Frequency (min.) |     |
|----------------|-------------|---------------------------------------------------------------|--------------------------------------------------------------|--------------------------|---------------------------------|-----|
| LQM2MPNR16MGH□ | 0.16μH ±20% | 5.0A(Max)/5.5A(Typ.)                                          | 4.0A(Max)/5.0A(Typ.)                                         | 18mΩ (Max)/14mΩ (Typ.)   | 150MHz                          | New |
| LQM2MPNR24MGH□ | 0.24μH ±20% | 4.8A(Max)/5.0A(Typ.)                                          | 3.4A(Max)/4.4A(Typ.)                                         | 25mΩ (Max)/20mΩ (Typ.)   | 130MHz                          | New |
| LQM2MPNR33MGH□ | 0.33μH ±20% | 3.7A(Max)/3.9A(Typ.)                                          | 3.1A(Max)/4.0A(Typ.)                                         | 30mΩ (Max)/24mΩ (Typ.)   | 90MHz                           | New |
| LQM2MPNR47MGH□ | 0.47μH ±20% | 3.4A(Max)/3.6A(Typ.)                                          | 2.5A(Max)/3.2A(Typ.)                                         | 46mΩ (Max)/37mΩ (Typ.)   | 80MHz                           | New |
| LQM2MPNR68MGH□ | 0.68μH ±20% | 3.1A(Max)/3.4A(Typ.)                                          | 1.9A(Max)/2.5A(Typ.)                                         | 75mΩ (Max)/60mΩ (Typ.)   | 60MHz                           | New |
| LQM2MPN1R0MGH□ | 1.0μH ±20%  | 2.0A(Max)/2.3A(Typ.)                                          | 1.9A(Max)/2.4A(Typ.)                                         | 80mΩ (Max)/64mΩ (Typ.)   | 60MHz                           | New |
| LQM2MPN1R5MGH□ | 1.5μH ±20%  | 1.8A(Max)/2.0A(Typ.)                                          | 1.5A(Max)/1.9A(Typ.)                                         | 130mΩ (Max)/104mΩ (Typ.) | 50MHz                           | New |
| LQM2MPN2R2MGH□ | 2.2μH ±20%  | 1.3A(Max)/1.5A(Typ.)                                          | 1.0A(Max)/1.3A(Typ.)                                         | 263mΩ (Max)/210mΩ (Typ.) | 40MHz                           | New |

Inductance Test Frequency: 1MHz Class of Magnetic Shield: Magnetic shield of ferrite

Operating Temperature Range: -40°C~+85°C

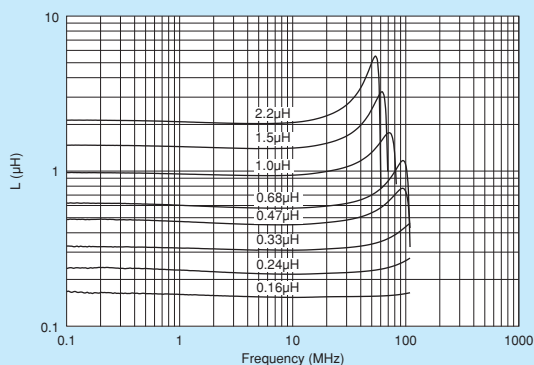
For reflow soldering only.

\*1 When applied rated current to the products, inductance will be within -30% of initial inductance value. Typical value is actual performance.

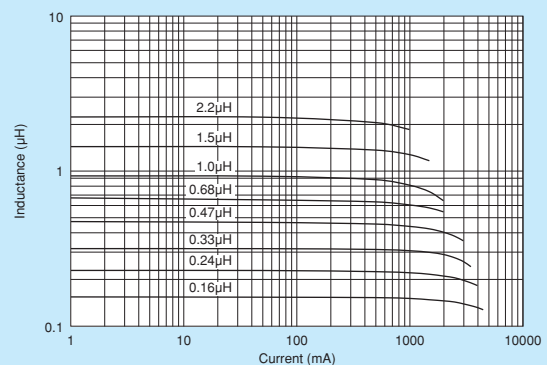
\*2 When applied rated current to the products, temperature rise caused by self heating will be 40°C or less. Typical value is actual performance.

\*3 Keep the temperature of product (ambient temperature plus self-generation of heat) under 125°C.

## Inductance-Frequency Characteristics (Typ.)



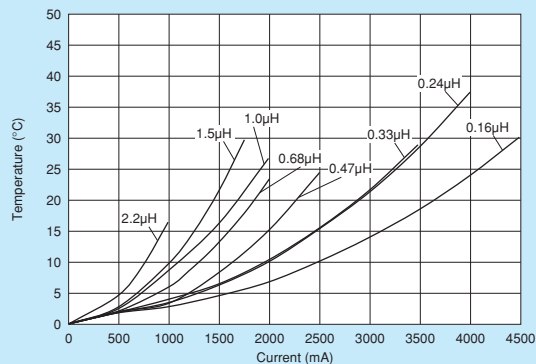
## Inductance-Current Characteristics (Typ.)



Continued on the following page.

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### ■ Temperature Rise Characteristics (Typ.)

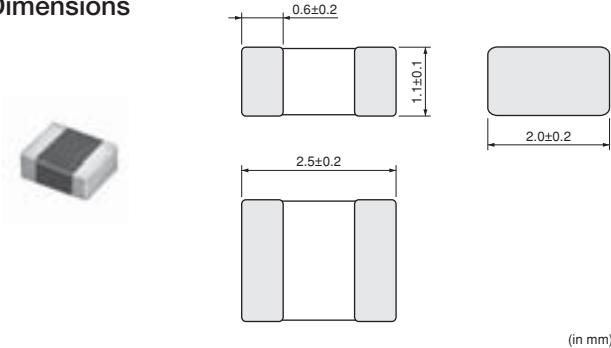


# LQM2HPN\_J0

Series 1008/2520 (inch/mm)

Size Code 1008 (2520) in inch (in mm), 1.2mm max. Thickness

## ■ Appearance/Dimensions



## ■ Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| L    | ø180mm Embossed Taping | 3000             |
| B    | Packing in Bulk        | 1000             |



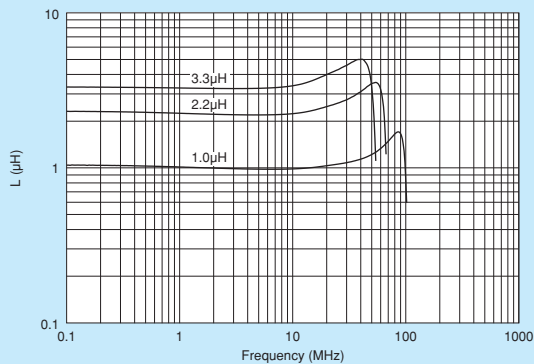
Refer to pages 102 to 106 for mounting information.

## ■ Rated Value (□: packaging code)

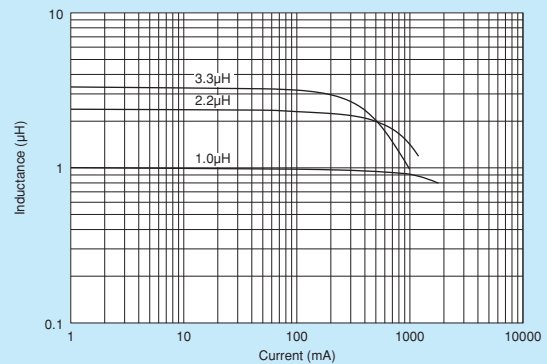
| Part Number    | Inductance | Inductance Test Frequency | Rated Current | DC Resistance | Self-Resonance Frequency (min.) |     |
|----------------|------------|---------------------------|---------------|---------------|---------------------------------|-----|
| LQM2HPN1R0MJ0□ | 1.0μH ±20% | 1MHz                      | 1500mA        | 0.09 Ω ±25%   | 70MHz                           | Kit |
| LQM2HPN2R2MJ0□ | 2.2μH ±20% | 1MHz                      | 1000mA        | 0.12 Ω ±25%   | 40MHz                           | Kit |
| LQM2HPN3R3MJ0□ | 3.3μH ±20% | 1MHz                      | 1000mA        | 0.12 Ω ±25%   | 30MHz                           | Kit |

Class of Magnetic Shield: Magnetic shield of ferrite    Operating Temperature Range: -55°C~+125°C

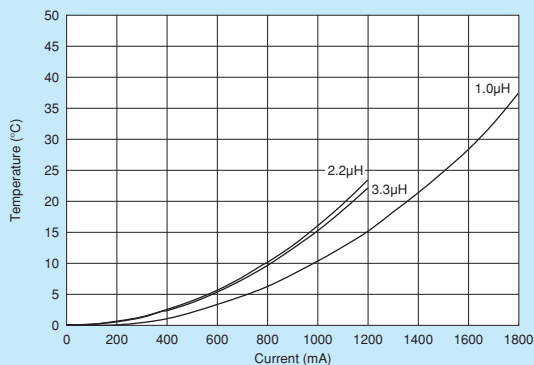
## ■ Inductance-Frequency Characteristics (Typ.)



## ■ Inductance-Current Characteristics (Typ.)



## ■ Temperature Rise Characteristics (Typ.)

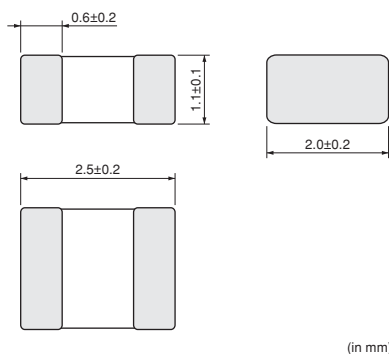


## Multilayer Type (Ferrite Core)

# LQM2HPN\_JH

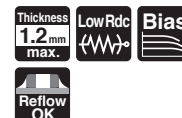
 Series 1008/2520 (inch/mm)

## High Spec Type (Low DC Resistance / Good Bias Current Characteristics Type)

■ Appearance/  
Dimensions

## ■ Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| L    | ø180mm Embossed Taping | 3000             |



Refer to pages 102 to 106 for mounting information.

## ■ Rated Value (□: packaging code)

| Part Number    | Inductance  | Rated Current <sup>*1*3</sup><br>(Based on Inductance Change) | Rated Current <sup>*2*3</sup><br>(Based on Temperature Rise) | Max. of DC Resistance    | Self-Resonance Frequency (min.) |     |
|----------------|-------------|---------------------------------------------------------------|--------------------------------------------------------------|--------------------------|---------------------------------|-----|
| LQM2HPNR47MJH□ | 0.47μH ±20% | 3.2A(Max)/3.5A(Typ.)                                          | 2.7A(Max)/3.4A(Typ.)                                         | 46mΩ (Max)/37mΩ (Typ.)   | 70MHz                           | New |
| LQM2HPN1R0MJH□ | 1.0μH ±20%  | 2.1A(Max)/2.4A(Typ.)                                          | 2.3A(Max)/2.9A(Typ.)                                         | 63mΩ (Max)/50mΩ (Typ.)   | 50MHz                           | New |
| LQM2HPN2R2MJH□ | 2.2μH ±20%  | 1.4A(Max)/1.6A(Typ.)                                          | 1.5A(Max)/1.9A(Typ.)                                         | 138mΩ (Max)/110mΩ (Typ.) | 30MHz                           | New |

Inductance Test Frequency: 1MHz Class of Magnetic Shield: Magnetic shield of ferrite

Operating Temperature Range: -40°C~+85°C

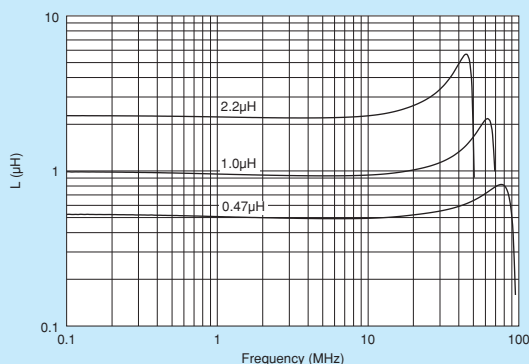
For reflow soldering only.

\*1 When applied rated current to the products, inductance will be within -30% of initial inductance value. Typical value is actual performance.

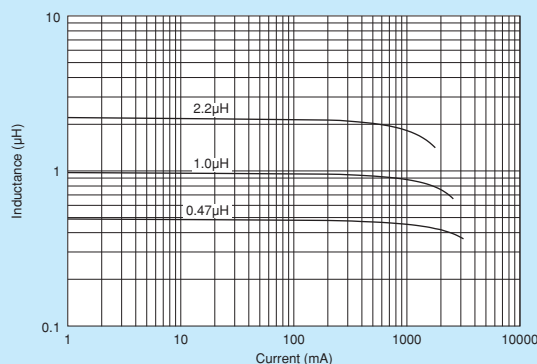
\*2 When applied rated current to the products, temperature rise caused by self heating will be 40°C or less. Typical value is actual performance.

\*3 Keep the temperature of product (ambient temperature plus self-generation of heat) under 125°C.

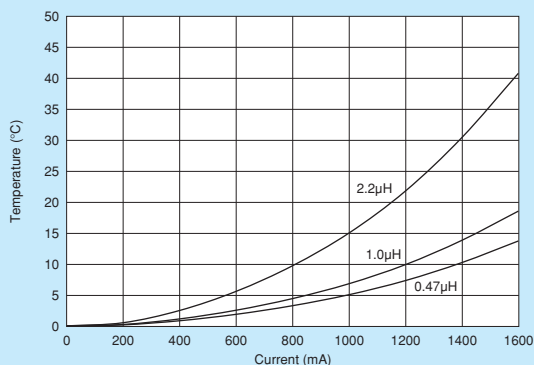
## ■ Inductance-Frequency Characteristics (Typ.)



## ■ Inductance-Current Characteristics (Typ.)



## ■ Temperature Rise Characteristics (Typ.)



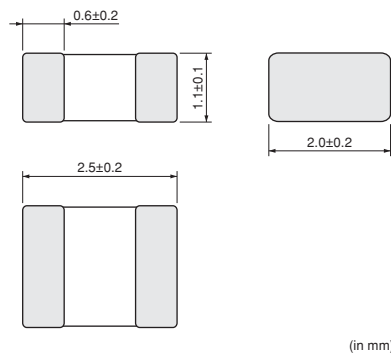
⚠Note • Please read rating and ⚠CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.  
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# LQM2HPN\_JC

Series 1008/2520 (inch/mm)

## Bias Current Characteristics Improved

### ■ Appearance/Dimensions



(in mm)

### ■ Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| L    | ø180mm Embossed Taping | 3000             |
| B    | Packing in Bulk        | 1000             |



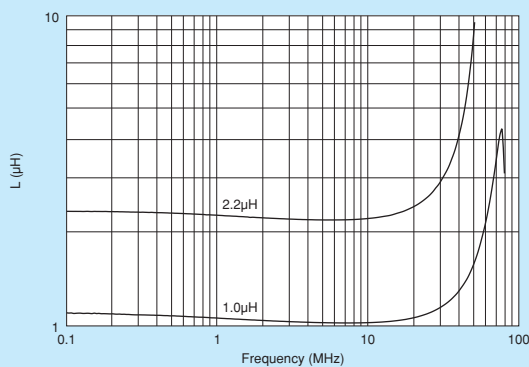
Refer to pages 102 to 106 for mounting information.

### ■ Rated Value (□: packaging code)

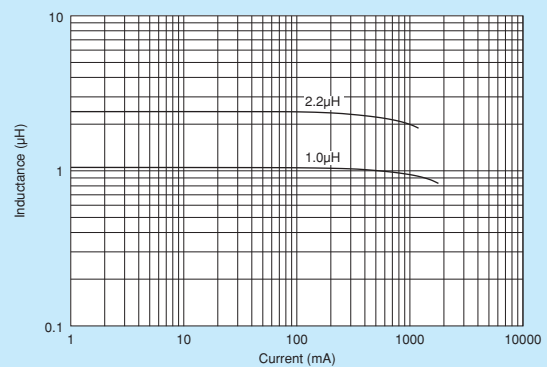
| Part Number    | Inductance                | Inductance Test Frequency | Rated Current | DC Resistance          | Self-Resonance Frequency (min.) |     |
|----------------|---------------------------|---------------------------|---------------|------------------------|---------------------------------|-----|
| LQM2HPN1R0MJC□ | $1.0\mu\text{H} \pm 20\%$ | 1MHz                      | 1500mA        | $0.086\Omega \pm 25\%$ | 50MHz                           | Kit |
| LQM2HPN2R2NJC□ | $2.2\mu\text{H} \pm 30\%$ | 1MHz                      | 1000mA        | $0.175\Omega \pm 25\%$ | 30MHz                           | Kit |

Class of Magnetic Shield: Magnetic shield of ferrite    Operating Temperature Range:  $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$ 

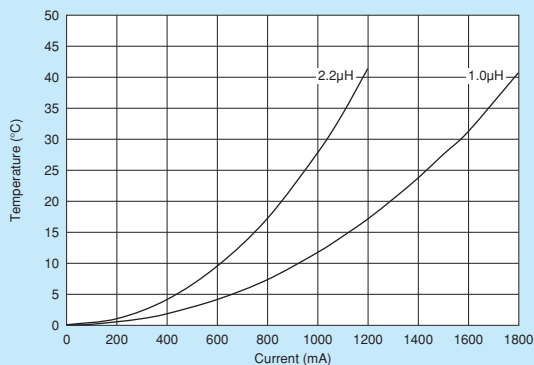
### ■ Inductance-Frequency Characteristics (Typ.)



### ■ Inductance-Current Characteristics (Typ.)



### ■ Temperature Rise Characteristics (Typ.)

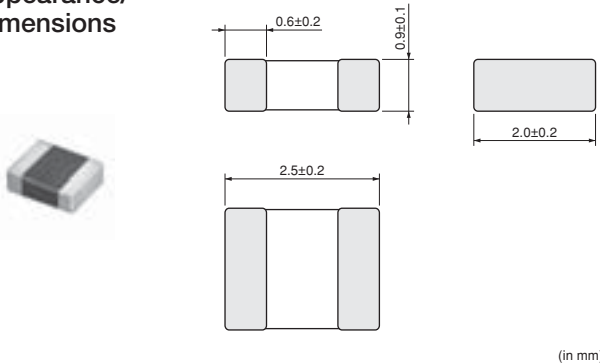


## Multilayer Type (Ferrite Core)

# LQM2HPN\_G0

Series 1008/2520 (inch/mm)

Size Code 1008 (2520) in inch (in mm), 1.0mm max. Thickness

■ Appearance/  
Dimensions

## ■ Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| L    | ø180mm Embossed Taping | 3000             |
| B    | Packing in Bulk        | 1000             |



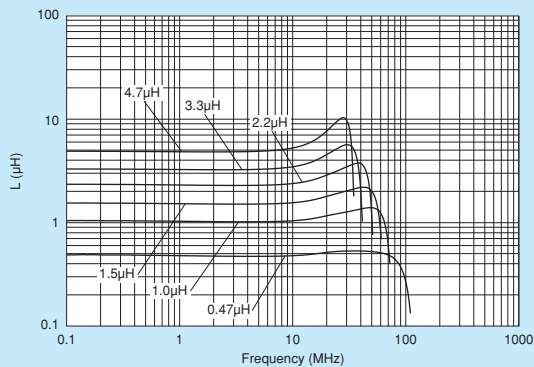
Refer to pages 102 to 106 for mounting information.

## ■ Rated Value (□: packaging code)

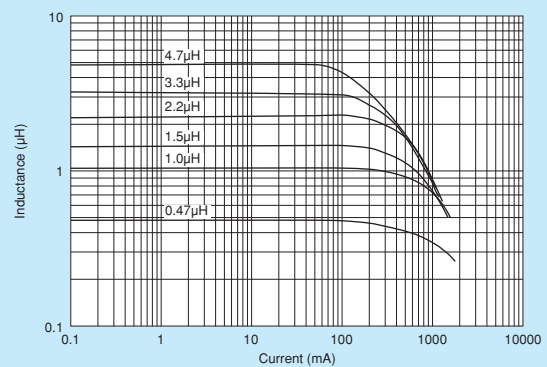
| Part Number    | Inductance  | Inductance Test Frequency | Rated Current | DC Resistance | Self-Resonance Frequency (min.) |     |
|----------------|-------------|---------------------------|---------------|---------------|---------------------------------|-----|
| LQM2HPNR47MG0□ | 0.47μH ±20% | 1MHz                      | 1800mA        | 0.04 Ω ±25%   | 100MHz                          | Kit |
| LQM2HPN1R0MG0□ | 1.0μH ±20%  | 1MHz                      | 1600mA        | 0.055 Ω ±25%  | 60MHz                           | Kit |
| LQM2HPN1R5MG0□ | 1.5μH ±20%  | 1MHz                      | 1500mA        | 0.07 Ω ±25%   | 50MHz                           | Kit |
| LQM2HPN2R2MG0□ | 2.2μH ±20%  | 1MHz                      | 1300mA        | 0.08 Ω ±25%   | 40MHz                           | Kit |
| LQM2HPN3R3MG0□ | 3.3μH ±20%  | 1MHz                      | 1200mA        | 0.10 Ω ±25%   | 30MHz                           | Kit |
| LQM2HPN4R7MG0□ | 4.7μH ±20%  | 1MHz                      | 1100mA        | 0.11 Ω ±25%   | 25MHz                           | Kit |

Class of Magnetic Shield: Magnetic shield of ferrite Operating Temperature Range: -55°C~+125°C

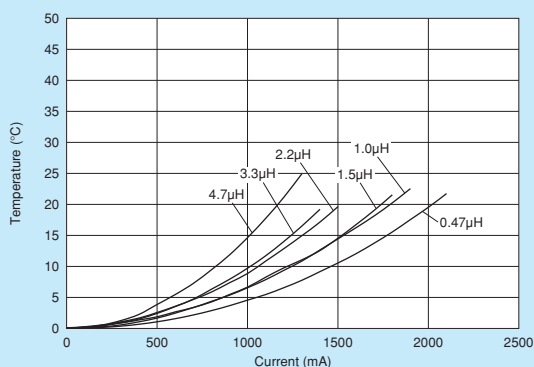
## ■ Inductance-Frequency Characteristics (Typ.)



## ■ Inductance-Current Characteristics (Typ.)



## ■ Temperature Rise Characteristics (Typ.)



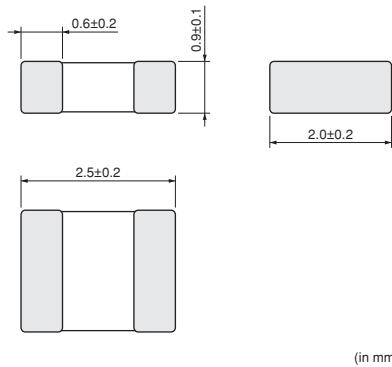
△Note • Please read rating and △CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.  
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# LQM2HPN\_GS

Series 1008/2520 (inch/mm)

Size Code 1008 (2520) in inch (in mm), 1.0mm max. Thickness

## Appearance/Dimensions



## Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| L    | ø180mm Embossed Taping | 3000             |
| B    | Packing in Bulk        | 1000             |



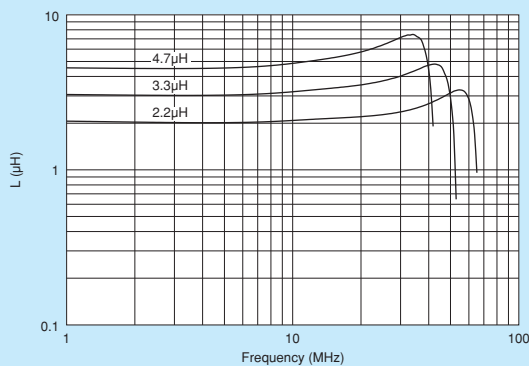
Refer to pages 102 to 106 for mounting information.

## Rated Value (□: packaging code)

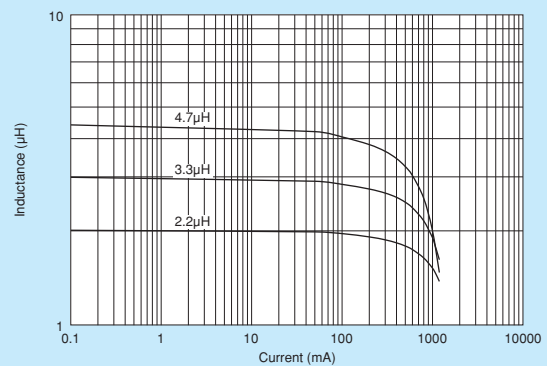
| Part Number    | Inductance | Inductance Test Frequency | Rated Current | DC Resistance | Self-Resonance Frequency (min.) |     |
|----------------|------------|---------------------------|---------------|---------------|---------------------------------|-----|
| LQM2HPN2R2MGS□ | 2.2μH ±20% | 1MHz                      | 1100mA        | 0.18Ω ±25%    | 40MHz                           | Kit |
| LQM2HPN3R3MGS□ | 3.3μH ±20% | 1MHz                      | 1050mA        | 0.21Ω ±25%    | 20MHz                           | Kit |
| LQM2HPN4R7MGS□ | 4.7μH ±20% | 1MHz                      | 1000mA        | 0.25Ω ±25%    | 20MHz                           | Kit |

Class of Magnetic Shield: Magnetic shield of ferrite    Operating Temperature Range: -40°C~+85°C

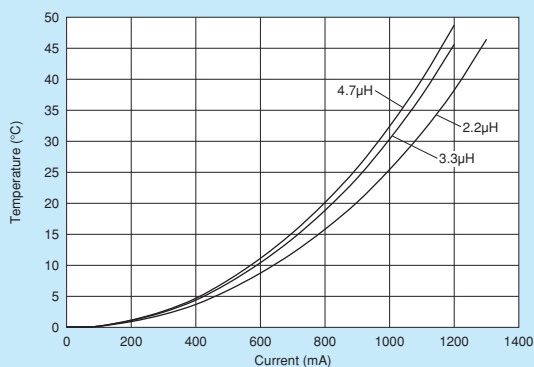
## Inductance-Frequency Characteristics (Typ.)



## Inductance-Current Characteristics (Typ.)



## Temperature Rise Characteristics (Typ.)

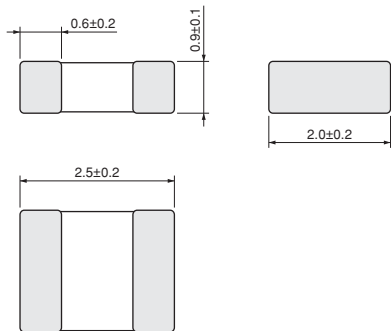


# LQM2HPN\_GC

Series 1008/2520 (inch/mm)

## Bias Current Characteristics Improved

### Appearance/Dimensions



(in mm)

### Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| L    | ø180mm Embossed Taping | 3000             |
| B    | Packing in Bulk        | 1000             |



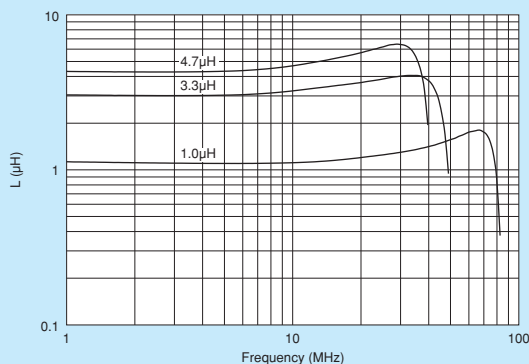
Refer to pages 102 to 106 for mounting information.

### Rated Value (□: packaging code)

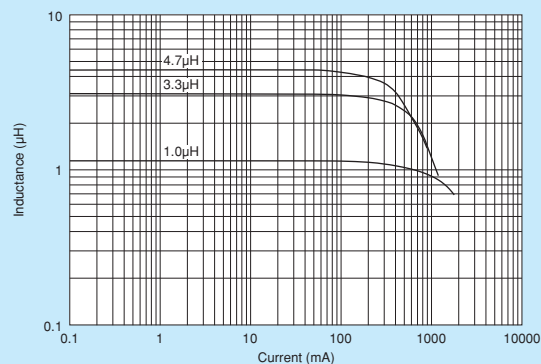
| Part Number    | Inductance | Inductance Test Frequency | Rated Current | DC Resistance | Self-Resonance Frequency (min.) | Operating Temperature Range |     |
|----------------|------------|---------------------------|---------------|---------------|---------------------------------|-----------------------------|-----|
| LQM2HPN1R0MGC□ | 1.0μH ±20% | 1MHz                      | 1500mA        | 0.08Ω ±25%    | 50MHz                           | -30°C~+85°C                 | Kit |
| LQM2HPN3R3MGC□ | 3.3μH ±20% | 1MHz                      | 1000mA        | 0.16Ω ±25%    | 30MHz                           | -55°C~+125°C                | Kit |
| LQM2HPN4R7MGC□ | 4.7μH ±20% | 1MHz                      | 800mA         | 0.18Ω ±25%    | 25MHz                           | -55°C~+125°C                | Kit |

Class of Magnetic Shield: Magnetic shield of ferrite

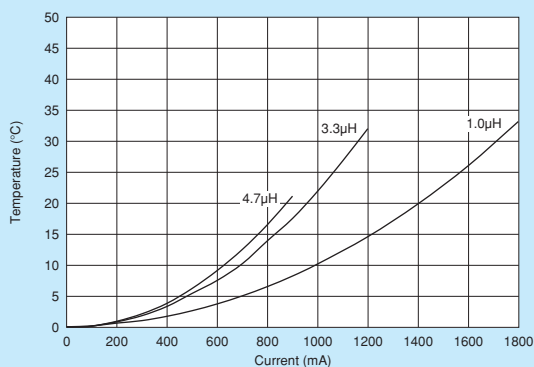
### Inductance-Frequency Characteristics (Typ.)



### Inductance-Current Characteristics (Typ.)



### Temperature Rise Characteristics (Typ.)



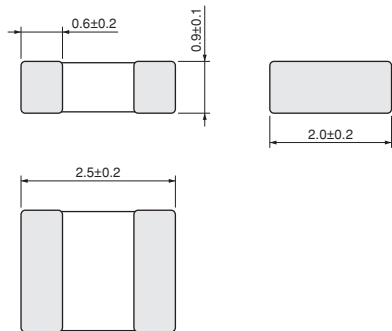
⚠Note • Please read rating and ⚠CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.  
• This catalog has only typical specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

# LQM2HPN\_GH

Series 1008/2520 (inch/mm)

High Spec Type (Low DC Resistance / Good Bias Current Characteristics Type)

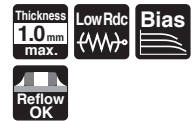
## Appearance/Dimensions



(in mm)

## Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| L    | ø180mm Embossed Taping | 3000             |



Refer to pages 102 to 106 for mounting information.

## Rated Value (□: packaging code)

| Part Number    | Inductance  | Rated Current *1*3<br>(Based on Inductance Change) | Rated Current *2*3<br>(Based on Temperature Rise) | Max. of DC Resistance    | Self-Resonance Frequency (min.) |     |
|----------------|-------------|----------------------------------------------------|---------------------------------------------------|--------------------------|---------------------------------|-----|
| LQM2HPNR47MGH□ | 0.47μH ±20% | 4.5A(Max)/4.8A(Typ.)                               | 2.6A(Max)/3.3A(Typ.)                              | 50mΩ (Max)/40mΩ (Typ.)   | 80MHz                           | New |
| LQM2HPNR68MGH□ | 0.68μH ±20% | 4.0A(Max)/3.8A(Typ.)                               | 2.3A(Max)/2.9A(Typ.)                              | 63mΩ (Max)/50mΩ (Typ.)   | 60MHz                           | New |
| LQM2HPN1R0MGH□ | 1.0μH ±20%  | 2.0A(Max)/2.3A(Typ.)                               | 2.3A(Max)/2.9A(Typ.)                              | 63mΩ (Max)/50mΩ (Typ.)   | 50MHz                           | New |
| LQM2HPN1R5MGH□ | 1.5μH ±20%  | 1.5A(Max)/1.6A(Typ.)                               | 2.0A(Max)/2.6A(Typ.)                              | 81mΩ (Max)/65mΩ (Typ.)   | 40MHz                           | New |
| LQM2HPN2R2MGH□ | 2.2μH ±20%  | 1.5A(Max)/1.6A(Typ.)                               | 1.5A(Max)/1.9A(Typ.)                              | 138mΩ (Max)/110mΩ (Typ.) | 30MHz                           | New |

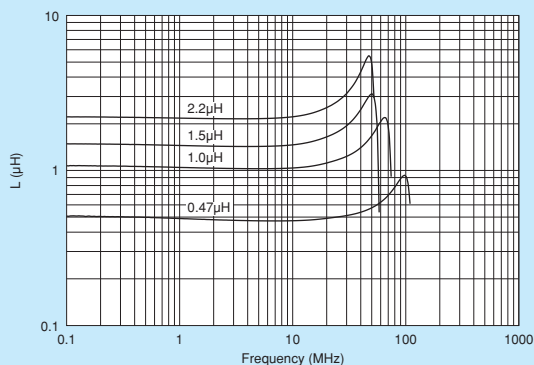
Inductance Test Frequency: 1MHz Class of Magnetic Shield: Magnetic shield of ferrite Operating Temperature Range: -40°C~+85°C For reflow soldering only.

\*1 When applied rated current to the products, inductance will be within -30% of initial inductance value. Typical value is actual performance.

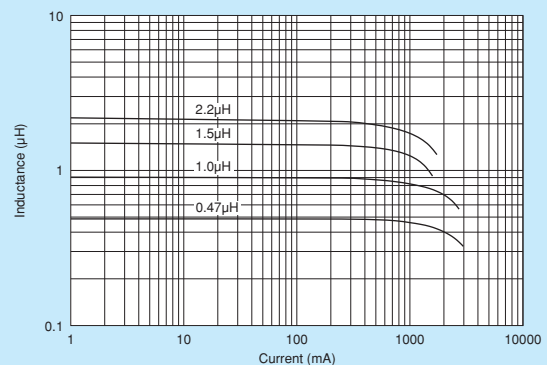
\*2 When applied rated current to the products, temperature rise caused by self heating will be 40°C or less. Typical value is actual performance.

\*3 Keep the temperature of product (ambient temperature plus self-generation of heat) under 125°C.

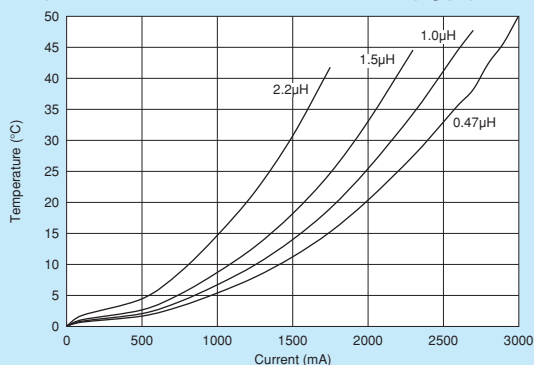
## Inductance-Frequency Characteristics (Typ.)



## Inductance-Current Characteristics (Typ.)



## Temperature Rise Characteristics (Typ.)



⚠Note • Please read rating and ⚠CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.  
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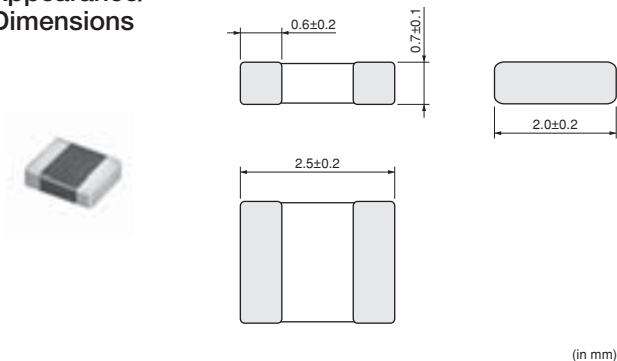
## Multilayer Type (Ferrite Core)

# LQM2HPN\_E0

Series 1008/2520 (inch/mm)

Size Code 1008 (2520) in inch (in mm), 0.8mm max. Thickness

## ■ Appearance/Dimensions



## ■ Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| L    | ø180mm Embossed Taping | 3000             |
| B    | Packing in Bulk        | 1000             |



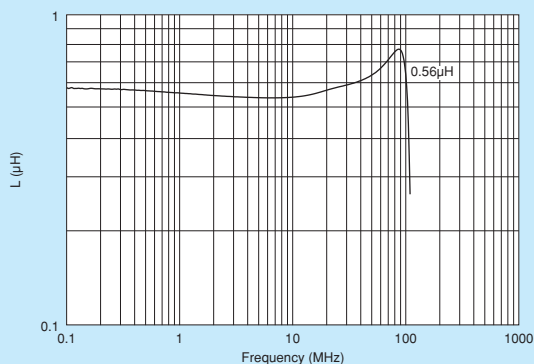
Refer to pages 102 to 106 for mounting information.

## ■ Rated Value (□: packaging code)

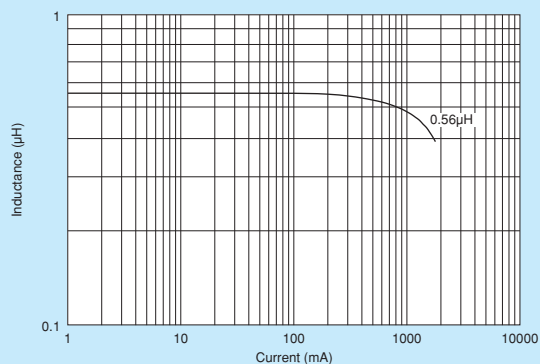
| Part Number    | Inductance  | Inductance Test Frequency | Rated Current | DC Resistance | Self-Resonance Frequency (min.) |     |
|----------------|-------------|---------------------------|---------------|---------------|---------------------------------|-----|
| LQM2HPNR56ME0□ | 0.56μH ±20% | 1MHz                      | 1500mA        | 0.06 Ω ±25%   | 70MHz                           | Kit |

Class of Magnetic Shield: Magnetic shield of ferrite    Operating Temperature Range: -55°C~+125°C

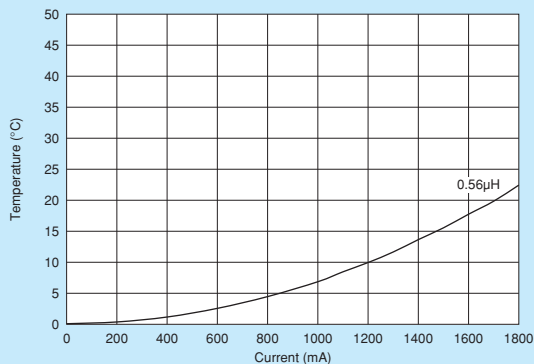
## ■ Inductance-Frequency Characteristics (Typ.)



## ■ Inductance-Current Characteristics (Typ.)



## ■ Temperature Rise Characteristics (Typ.)



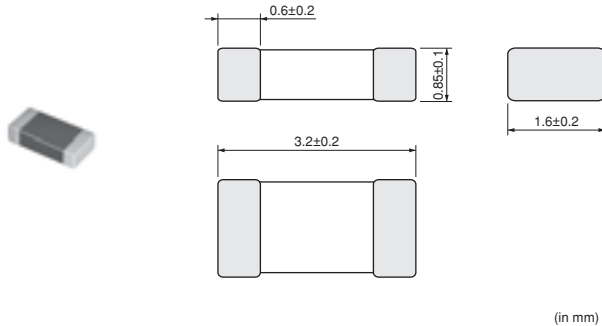
⚠Note • Please read rating and ⚠CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.  
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# LQM31PN\_00

Series 1206/3216 (inch/mm)

Size Code 1206 (3216) in inch (in mm), 0.95mm max. Thickness

## Appearance/Dimensions



## Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| L    | ø180mm Embossed Taping | 3000             |
| B    | Packing in Bulk        | 1000             |



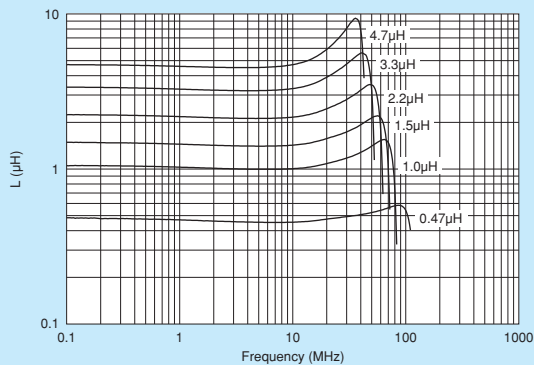
Refer to pages 102 to 106 for mounting information.

## Rated Value (□: packaging code)

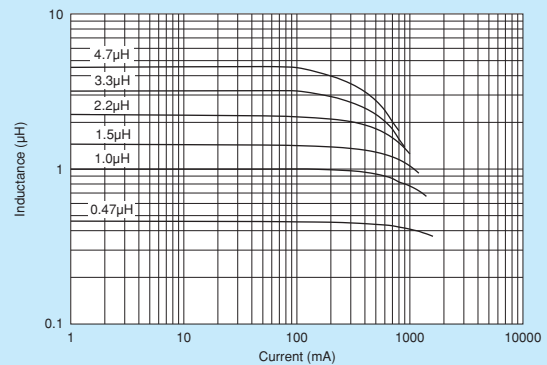
| Part Number    | Inductance  | Inductance Test Frequency | Rated Current | DC Resistance | Self-Resonance Frequency (min.) |     |
|----------------|-------------|---------------------------|---------------|---------------|---------------------------------|-----|
| LQM31PNR47M00□ | 0.47μH ±20% | 1MHz                      | 1400mA        | 0.07 Ω ±25%   | 80MHz                           | Kit |
| LQM31PN1R0M00□ | 1.0μH ±20%  | 1MHz                      | 1200mA        | 0.12 Ω ±25%   | 60MHz                           | Kit |
| LQM31PN1R5M00□ | 1.5μH ±20%  | 1MHz                      | 1000mA        | 0.14 Ω ±25%   | 50MHz                           | Kit |
| LQM31PN2R2M00□ | 2.2μH ±20%  | 1MHz                      | 900mA         | 0.19 Ω ±25%   | 40MHz                           | Kit |
| LQM31PN3R3M00□ | 3.3μH ±20%  | 1MHz                      | 800mA         | 0.24 Ω ±25%   | 30MHz                           | Kit |
| LQM31PN4R7M00□ | 4.7μH ±20%  | 1MHz                      | 700mA         | 0.30 Ω ±25%   | 25MHz                           | Kit |

Class of Magnetic Shield: Magnetic shield of ferrite Operating Temperature Range: -55°C~+125°C

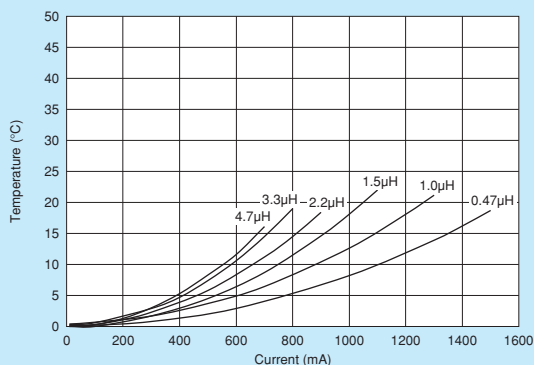
## Inductance-Frequency Characteristics (Typ.)



## Inductance-Current Characteristics (Typ.)



## Temperature Rise Characteristics (Typ.)



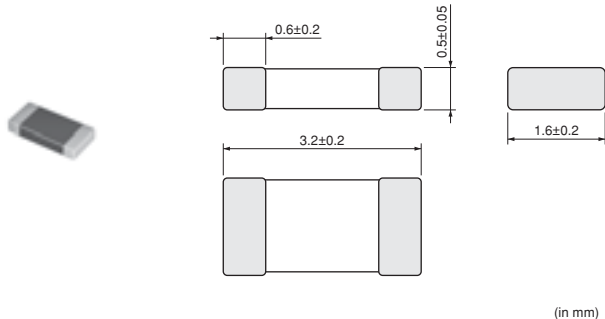
⚠Note • Please read rating and ⚠CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.  
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# LQM31PN\_C0

Series 1206/3216 (inch/mm)

Size Code 1206 (3216) in inch (in mm), 0.55mm max. Thickness

## ■ Appearance/Dimensions



## ■ Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| L    | ø180mm Embossed Taping | 4000             |
| B    | Packing in Bulk        | 1000             |



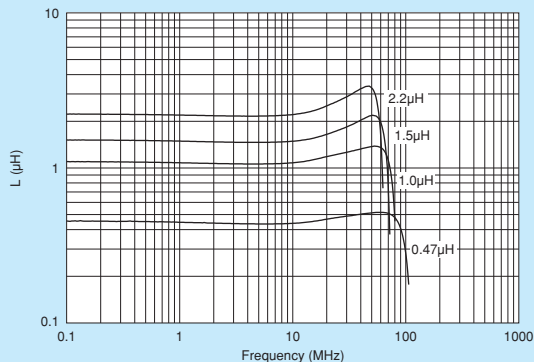
Refer to pages 102 to 106 for mounting information.

## ■ Rated Value (□: packaging code)

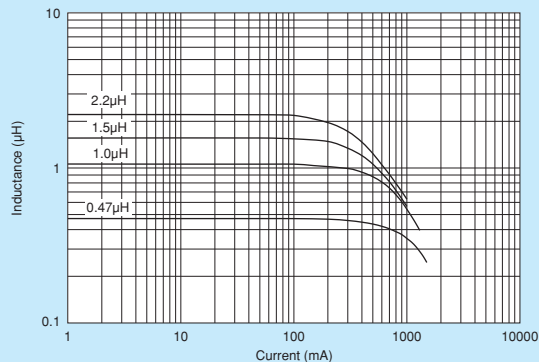
| Part Number    | Inductance  | Inductance Test Frequency | Rated Current | DC Resistance | Self-Resonance Frequency (min.) |     |
|----------------|-------------|---------------------------|---------------|---------------|---------------------------------|-----|
| LQM31PNR47MC0□ | 0.47μH ±20% | 1MHz                      | 1300mA        | 0.085Ω ±25%   | 90MHz                           | Kit |
| LQM31PN1R0MC0□ | 1.0μH ±20%  | 1MHz                      | 1100mA        | 0.14Ω ±25%    | 70MHz                           | Kit |
| LQM31PN1R5MC0□ | 1.5μH ±20%  | 1MHz                      | 1000mA        | 0.17Ω ±25%    | 60MHz                           | Kit |
| LQM31PN2R2MC0□ | 2.2μH ±20%  | 1MHz                      | 900mA         | 0.25Ω ±25%    | 50MHz                           | Kit |

Class of Magnetic Shield: Magnetic shield of ferrite Operating Temperature Range: -55°C~+125°C

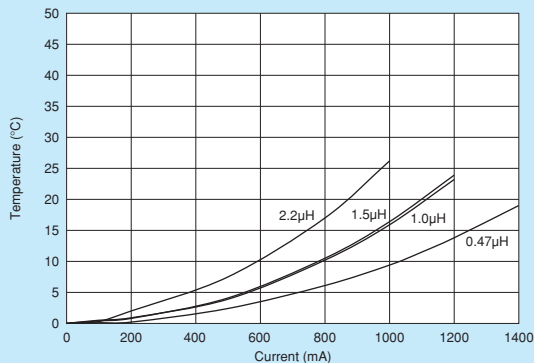
## ■ Inductance-Frequency Characteristics (Typ.)



## ■ Inductance-Current Characteristics (Typ.)



## ■ Temperature Rise Characteristics (Typ.)



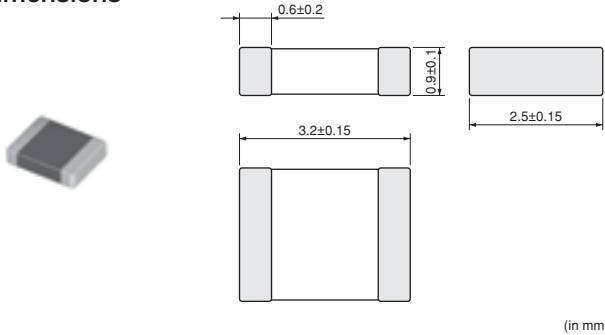
⚠Note • Please read rating and ⚠CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.  
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# LQM32PN\_G0

Series 1210/3225 (inch/mm)

Size Code 1210 (3225) in inch (in mm), 0.55mm max. Thickness

## Appearance/Dimensions



## Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| L    | ø180mm Embossed Taping | 3000             |
| B    | Packing in Bulk        | 1000             |



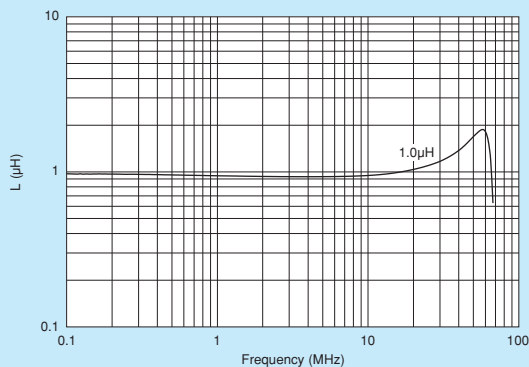
Refer to pages 102 to 106 for mounting information.

## Rated Value (□: packaging code)

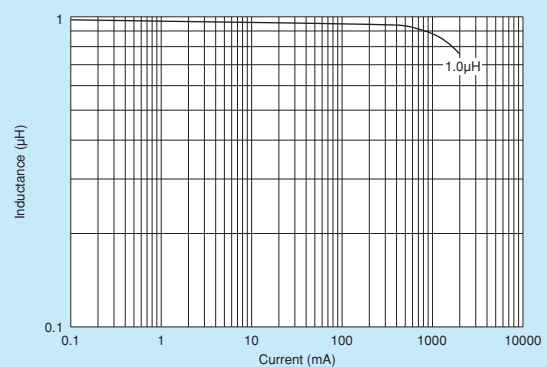
| Part Number    | Inductance | Inductance Test Frequency | Rated Current | DC Resistance | Self-Resonance Frequency (min.) |     |
|----------------|------------|---------------------------|---------------|---------------|---------------------------------|-----|
| LQM32PN1R0MG0□ | 1.0μH ±20% | 1MHz                      | 1800mA        | 0.048Ω ±25%   | 40MHz                           | Kit |

Class of Magnetic Shield: Magnetic shield of ferrite    Operating Temperature Range: -40°C~+85°C  
For reflow soldering only.

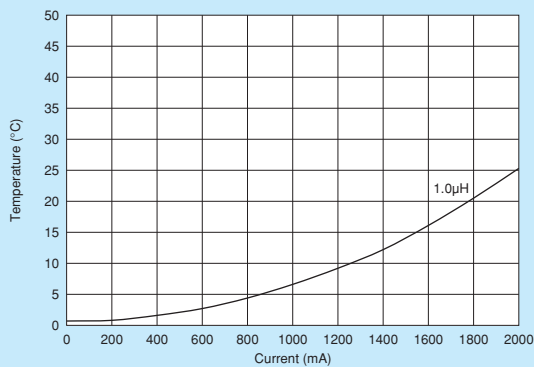
## Inductance-Frequency Characteristics (Typ.)



## Inductance-Current Characteristics (Typ.)



## Temperature Rise Characteristics (Typ.)

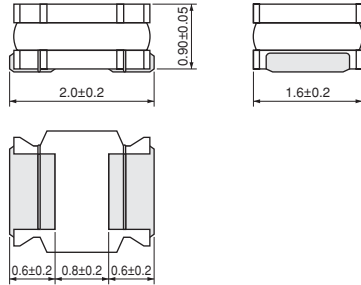


## Wire Wound Type (Ferrite Core)

# LQH2MCN\_02

Series 0806/2016 (inch/mm)

Size Code 0806 (2016) in inch (in mm), 0.95mm max. Thickness

■ Appearance/  
Dimensions

(in mm)

## ■ Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| L    | ø180mm Embossed Taping | 3000             |
| B    | Packing in Bulk        | 100              |



Refer to pages 102 to 106 for mounting information.

## ■ Rated Value (□: packaging code)

| Part Number    | Inductance | Inductance Test Frequency | Rated Current <sup>*1</sup> | DC Resistance | Self-Resonance Frequency (min.) |     |
|----------------|------------|---------------------------|-----------------------------|---------------|---------------------------------|-----|
| LQH2MCN1R0M02□ | 1.0μH ±20% | 1MHz                      | 485mA                       | 0.30 Ω ±30%   | 100MHz                          | Kit |
| LQH2MCN1R5M02□ | 1.5μH ±20% | 1MHz                      | 445mA                       | 0.40 Ω ±30%   | 95MHz                           | Kit |
| LQH2MCN2R2M02□ | 2.2μH ±20% | 1MHz                      | 425mA                       | 0.48 Ω ±30%   | 70MHz                           | Kit |
| LQH2MCN3R3M02□ | 3.3μH ±20% | 1MHz                      | 375mA                       | 0.60 Ω ±30%   | 65MHz                           | Kit |
| LQH2MCN4R7M02□ | 4.7μH ±20% | 1MHz                      | 300mA                       | 0.8 Ω ±30%    | 60MHz                           | Kit |
| LQH2MCN5R6M02□ | 5.6μH ±20% | 1MHz                      | 280mA                       | 0.9 Ω ±30%    | 60MHz                           | Kit |
| LQH2MCN6R8M02□ | 6.8μH ±20% | 1MHz                      | 255mA                       | 1.0 Ω ±30%    | 55MHz                           | Kit |
| LQH2MCN8R2M02□ | 8.2μH ±20% | 1MHz                      | 235mA                       | 1.1 Ω ±30%    | 50MHz                           | Kit |
| LQH2MCN100K02□ | 10μH ±10%  | 1MHz                      | 225mA                       | 1.2 Ω ±30%    | 48MHz                           | Kit |
| LQH2MCN120K02□ | 12μH ±10%  | 1MHz                      | 210mA                       | 1.4 Ω ±30%    | 44MHz                           | Kit |
| LQH2MCN150K02□ | 15μH ±10%  | 1MHz                      | 200mA                       | 1.6 Ω ±30%    | 40MHz                           | Kit |
| LQH2MCN180K02□ | 18μH ±10%  | 1MHz                      | 190mA                       | 1.8 Ω ±30%    | 35MHz                           | Kit |
| LQH2MCN220K02□ | 22μH ±10%  | 1MHz                      | 185mA                       | 2.1 Ω ±30%    | 30MHz                           | Kit |
| LQH2MCN270K02□ | 27μH ±10%  | 1MHz                      | 180mA                       | 2.5 Ω ±30%    | 30MHz                           | Kit |
| LQH2MCN330K02□ | 33μH ±10%  | 1MHz                      | 160mA                       | 2.8 Ω ±30%    | 28MHz                           | Kit |
| LQH2MCN390K02□ | 39μH ±10%  | 1MHz                      | 125mA                       | 4.4 Ω ±30%    | 24MHz                           | Kit |
| LQH2MCN470K02□ | 47μH ±10%  | 1MHz                      | 120mA                       | 5.1 Ω ±30%    | 18MHz                           | Kit |
| LQH2MCN560K02□ | 56μH ±10%  | 1MHz                      | 110mA                       | 5.7 Ω ±30%    | 17MHz                           | Kit |
| LQH2MCN680K02□ | 68μH ±10%  | 1MHz                      | 100mA                       | 6.6 Ω ±30%    | 14MHz                           | Kit |
| LQH2MCN820K02□ | 82μH ±10%  | 1MHz                      | 90mA                        | 7.5 Ω ±30%    | 14MHz                           | Kit |

Class of Magnetic Shield: No magnetic shield

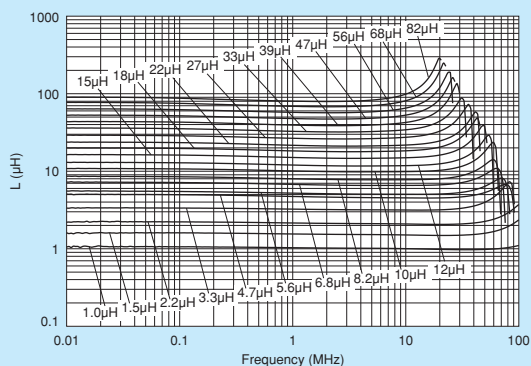
Operating Temperature Range (Self-temperature rise is not included): -40°C~+85°C

For reflow soldering only.

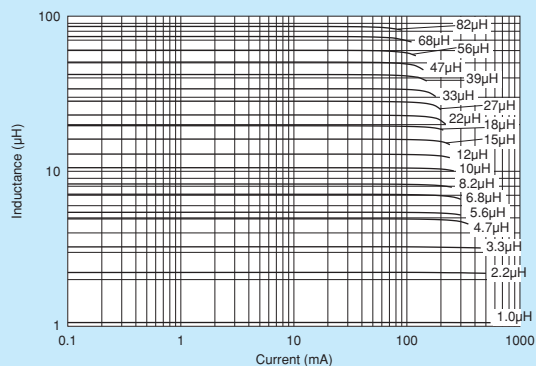
<sup>\*1</sup> When applied rated current to the products, self-temperature rise shall be limited to 40°C max. and inductance will be within ±10% of initial inductance value.

Continued on the following page. ↗

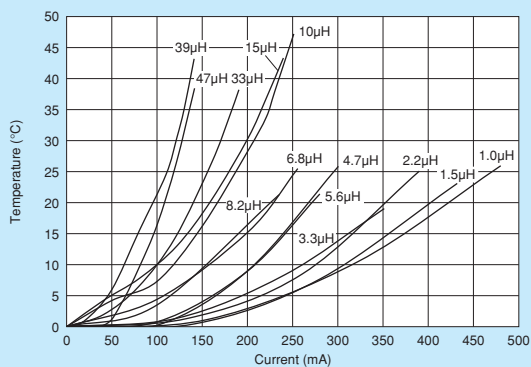
### ■ Inductance-Frequency Characteristics (Typ.)



### ■ Inductance-Current Characteristics (Typ.)



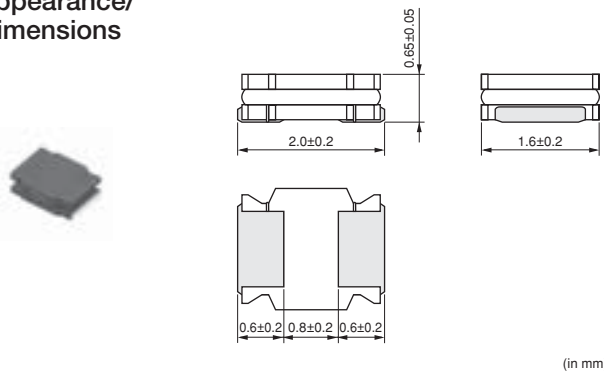
### ■ Temperature Rise Characteristics (Typ.)



## Wire Wound Type (Ferrite Core)

**LQH2MCN\_52** Series 0806/2016 (inch/mm)

Size Code 0806 (2016) in inch (in mm), 0.7mm max. Thickness

■ Appearance/  
Dimensions

## ■ Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| L    | ø180mm Embossed Taping | 3000             |
| B    | Packing in Bulk        | 100              |



Refer to pages 102 to 106 for mounting information.

## ■ Rated Value (□: packaging code)

| Part Number    | Inductance | Inductance Test Frequency | Rated Current <sup>*1</sup> | DC Resistance | Self-Resonance Frequency (min.) |     |
|----------------|------------|---------------------------|-----------------------------|---------------|---------------------------------|-----|
| LQH2MCN1R0M52□ | 1.0μH ±20% | 1MHz                      | 595mA                       | 0.25Ω ±30%    | 215MHz                          | Kit |
| LQH2MCN1R5M52□ | 1.5μH ±20% | 1MHz                      | 540mA                       | 0.33Ω ±30%    | 165MHz                          | Kit |
| LQH2MCN2R2M52□ | 2.2μH ±20% | 1MHz                      | 500mA                       | 0.42Ω ±30%    | 125MHz                          | Kit |
| LQH2MCN3R3M52□ | 3.3μH ±20% | 1MHz                      | 360mA                       | 0.74Ω ±30%    | 110MHz                          | Kit |
| LQH2MCN4R7M52□ | 4.7μH ±20% | 1MHz                      | 335mA                       | 0.91Ω ±30%    | 90MHz                           | Kit |
| LQH2MCN6R8M52□ | 6.8μH ±20% | 1MHz                      | 285mA                       | 1.23Ω ±30%    | 65MHz                           | Kit |
| LQH2MCN100M52□ | 10μH ±20%  | 1MHz                      | 200mA                       | 2.27Ω ±30%    | 60MHz                           | Kit |
| LQH2MCN120M52□ | 12μH ±20%  | 1MHz                      | 170mA                       | 2.4Ω ±30%     | 30MHz                           | Kit |
| LQH2MCN150M52□ | 15μH ±20%  | 1MHz                      | 150mA                       | 3.5Ω ±30%     | 30MHz                           | Kit |
| LQH2MCN180M52□ | 18μH ±20%  | 1MHz                      | 140mA                       | 4.0Ω ±30%     | 30MHz                           | Kit |
| LQH2MCN220M52□ | 22μH ±20%  | 1MHz                      | 130mA                       | 5.5Ω ±30%     | 30MHz                           | Kit |

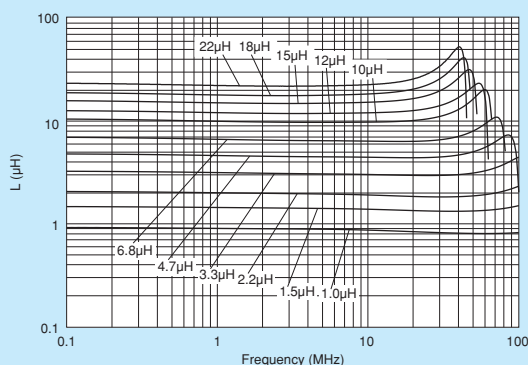
Class of Magnetic Shield: No magnetic shield

Operating Temperature Range (Self-temperature rise is not included): -40°C~+85°C

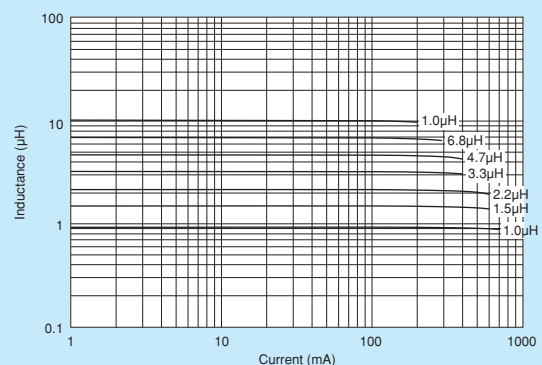
For reflow soldering only.

<sup>\*1</sup> When applied rated current to the products, self-temperature rise shall be limited to 40°C max. and inductance will be within ±10% of initial inductance value.

## ■ Inductance-Frequency Characteristics (Typ.)



## ■ Inductance-Current Characteristics (Typ.)

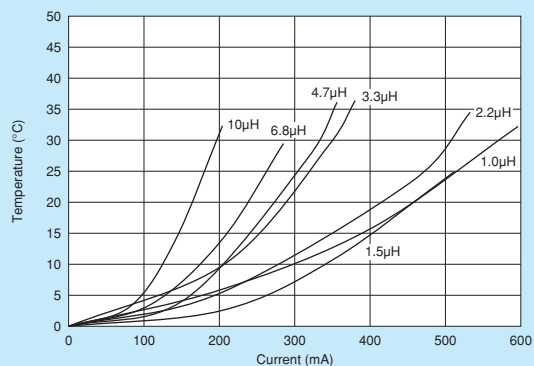


Continued on the following page.

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Nov.25,2013

### ■ Temperature Rise Characteristics (Typ.)

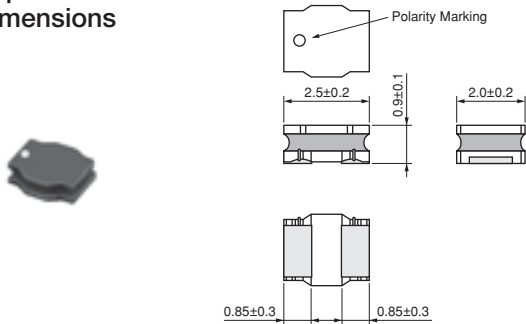


## Wire Wound Type (Ferrite Core)

# LQH2HPN\_G0

Series 1008/2520 (inch/mm)

Size Code 1008 (2520) in inch (in mm), 1.0mm max. Thickness

■ Appearance/  
Dimensions

(in mm)

## ■ Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| L    | ø180mm Embossed Taping | 3000             |



Refer to pages 102 to 106 for mounting information.

## ■ Rated Value (□: packaging code)

| Part Number    | Inductance | Rated Current<br>(Based on Inductance Change) <sup>*1*3</sup> | Rated Current<br>(Based on Temperature Rise) <sup>*2*3</sup> | DC Resistance | Self-Resonance<br>Frequency (min.) |     |
|----------------|------------|---------------------------------------------------------------|--------------------------------------------------------------|---------------|------------------------------------|-----|
| LQH2HPN2R2MG0□ | 2.2μH ±20% | 1640mA                                                        | 1000mA                                                       | 0.17 Ω ±20%   | 80MHz                              | Kit |
| LQH2HPN3R3MG0□ | 3.3μH ±20% | 1290mA                                                        | 810mA                                                        | 0.27 Ω ±20%   | 65MHz                              | Kit |
| LQH2HPN4R7MG0□ | 4.7μH ±20% | 1000mA                                                        | 700mA                                                        | 0.36 Ω ±20%   | 60MHz                              | Kit |
| LQH2HPN6R8MG0□ | 6.8μH ±20% | 800mA                                                         | 590mA                                                        | 0.5 Ω ±20%    | 10MHz                              | Kit |
| LQH2HPN100MG0□ | 10μH ±20%  | 700mA                                                         | 490mA                                                        | 0.73 Ω ±20%   | 10MHz                              | Kit |
| LQH2HPN220MG0□ | 22μH ±20%  | 490mA                                                         | 340mA                                                        | 1.6 Ω ±20%    | 10MHz                              | Kit |
| LQH2HPN101MG0□ | 100μH ±20% | 210mA                                                         | 130mA                                                        | 10.0 Ω ±20%   | 5MHz                               | Kit |

Inductance Test Frequency: 1MHz Class of Magnetic Shield: Magnetic shield of magnetic powder in resin

Operating Temperature Range (Self-temperature rise is not included): -40°C~+85°C

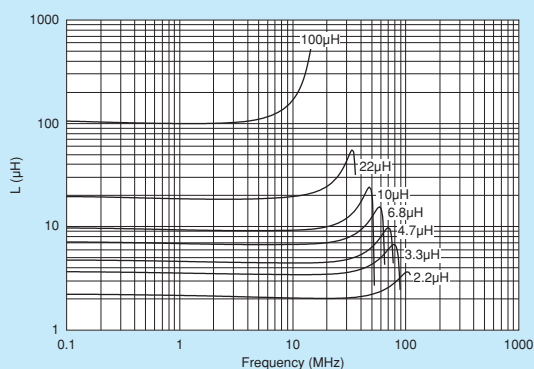
For reflow soldering only.

\*1 When applied rated current to the products, inductance will be within -30% of minimum rated inductance value.

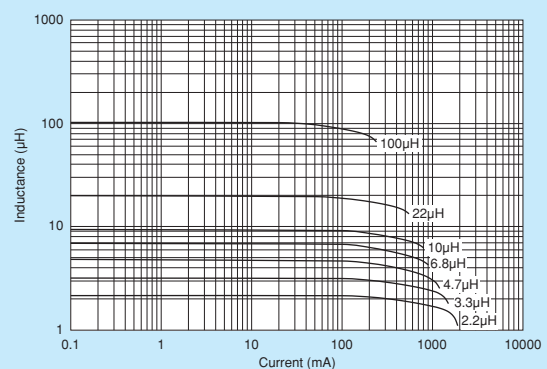
\*2 When applied rated current to the products, self-temperature rise shall be limited to 40°C max.

\*3 Keep the temperature (ambient temperature plus self-generation of heat) under 125°C.

## ■ Inductance-Frequency Characteristics (Typ.)



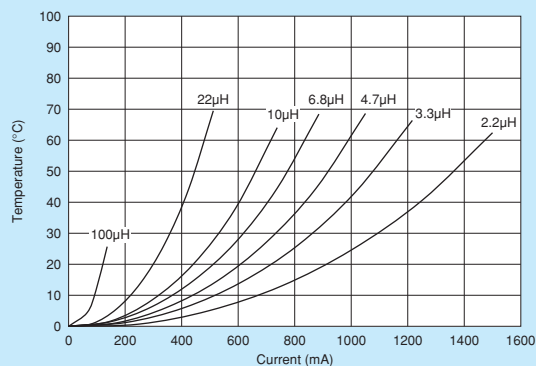
## ■ Inductance-Current Characteristics (Typ.)



Continued on the following page.

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### ■ Temperature Rise Characteristics (Typ.)

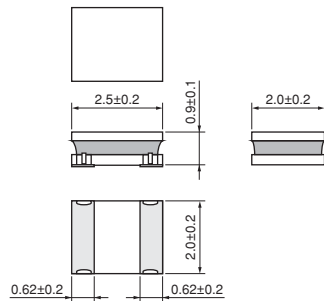


## Wire Wound Type (Ferrite Core)

# LQH2HPN\_GR

Series 1008/2520 (inch/mm)

Size Code 1008 (2520) in inch (in mm), 1.0mm max. Thickness. Low DC resistance design

■ Appearance/  
Dimensions

(in mm)

## ■ Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| L    | ø180mm Embossed Taping | 3000             |



Refer to pages 102 to 106 for mounting information.

## ■ Rated Value (□: packaging code)

| Part Number    | Inductance  | Rated Current <sup>*1*3</sup><br>(Based on Inductance Change) | Rated Current <sup>*2*3</sup><br>(Based on Temperature Rise) | DC Resistance | Self-Resonance Frequency (min.) |         |
|----------------|-------------|---------------------------------------------------------------|--------------------------------------------------------------|---------------|---------------------------------|---------|
| LQH2HPNR47MGR□ | 0.47μH ±20% | 2900mA                                                        | 2520mA                                                       | 0.045Ω ±20%   | 120MHz                          | New     |
| LQH2HPNR68MGR□ | 0.68μH ±20% | 2430mA                                                        | 2330mA                                                       | 0.055Ω ±20%   | 110MHz                          | New     |
| LQH2HPN1R0MGR□ | 1.0μH ±20%  | 2130mA                                                        | 2100mA                                                       | 0.068Ω ±20%   | 100MHz                          | New Kit |
| LQH2HPN1R5MGR□ | 1.5μH ±20%  | 1700mA                                                        | 1850mA                                                       | 0.087Ω ±20%   | 90MHz                           | New     |
| LQH2HPN2R2MGR□ | 2.2μH ±20%  | 1550mA                                                        | 1470mA                                                       | 0.134Ω ±20%   | 80MHz                           | New Kit |
| LQH2HPN3R3MGR□ | 3.3μH ±20%  | 1230mA                                                        | 1100mA                                                       | 0.225Ω ±20%   | 70MHz                           | New     |
| LQH2HPN4R7MGR□ | 4.7μH ±20%  | 1090mA                                                        | 1000mA                                                       | 0.300Ω ±20%   | 50MHz                           | New     |
| LQH2HPN6R8MGR□ | 6.8μH ±20%  | 830mA                                                         | 860mA                                                        | 0.395Ω ±20%   | 40MHz                           | New     |
| LQH2HPN100MGR□ | 10μH ±20%   | 700mA                                                         | 710mA                                                        | 0.560Ω ±20%   | 30MHz                           | New     |
| LQH2HPN150MGR□ | 15μH ±20%   | 570mA                                                         | 560mA                                                        | 0.925Ω ±20%   | 20MHz                           | New     |
| LQH2HPN220MGR□ | 22μH ±20%   | 460mA                                                         | 430mA                                                        | 1.360Ω ±20%   | 15MHz                           | New     |

Inductance Test Frequency: 1MHz Class of Magnetic Shield: Magnetic shield of magnetic powder in resin

Operating Temperature Range (Self-temperature rise is not included): -40°C~+85°C

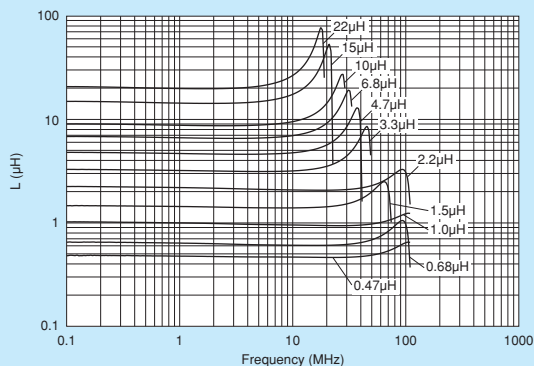
For reflow soldering only.

\*1 When applied rated current to the products, inductance will be within -30% of minimum rated inductance value.

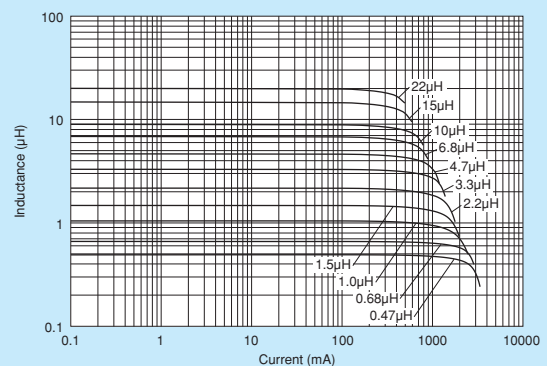
\*2 When applied rated current to the products, self-temperature rise shall be limited to 40°C max.

\*3 Keep the temperature (ambient temperature plus self-generation of heat) under 125°C.

## ■ Inductance-Frequency Characteristics (Typ.)



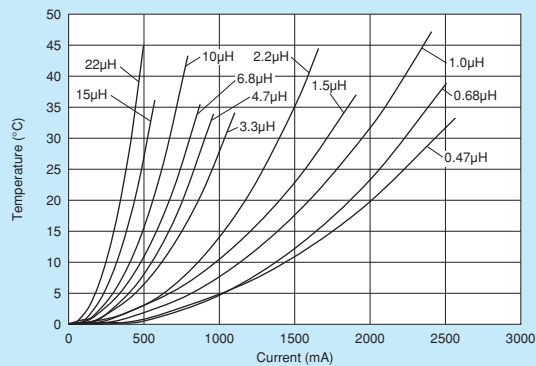
## ■ Inductance-Current Characteristics (Typ.)



Continued on the following page.

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### ■ Temperature Rise Characteristics (Typ.)

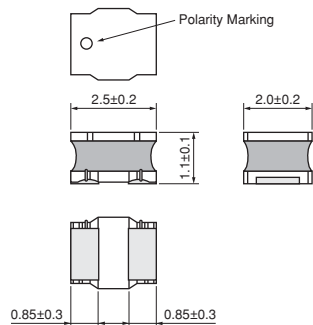


# LQH2HPN\_J0

Series 1008/2520 (inch/mm)

Size Code 1008 (2520) in inch (in mm), 1.2mm max. Thickness

## Appearance/Dimensions



(in mm)

## Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| L    | ø180mm Embossed Taping | 2000             |



Refer to pages 102 to 106 for mounting information.

## Rated Value (□: packaging code)

| Part Number    | Inductance | Rated Current <sup>*1*3</sup><br>(Based on Inductance Change) | Rated Current <sup>*2*3</sup><br>(Based on Temperature Rise) | DC Resistance | Self-Resonance Frequency (min.) |     |
|----------------|------------|---------------------------------------------------------------|--------------------------------------------------------------|---------------|---------------------------------|-----|
| LQH2HPN1R5NJ0□ | 1.5μH ±30% | 2400mA                                                        | 1500mA                                                       | 0.096 Ω ±20%  | 10MHz                           | Kit |
| LQH2HPN2R2MJ0□ | 2.2μH ±20% | 1800mA                                                        | 1300mA                                                       | 0.132 Ω ±20%  | 10MHz                           | Kit |
| LQH2HPN3R3MJ0□ | 3.3μH ±20% | 1500mA                                                        | 950mA                                                        | 0.230 Ω ±20%  | 10MHz                           | Kit |
| LQH2HPN4R7MJ0□ | 4.7μH ±20% | 1250mA                                                        | 700mA                                                        | 0.330 Ω ±20%  | 10MHz                           | Kit |
| LQH2HPN6R8MJ0□ | 6.8μH ±20% | 1100mA                                                        | 600mA                                                        | 0.448 Ω ±20%  | 10MHz                           | Kit |
| LQH2HPN100MJ0□ | 10μH ±20%  | 820mA                                                         | 550mA                                                        | 0.641 Ω ±20%  | 10MHz                           | Kit |

Inductance Test Frequency: 1MHz Class of Magnetic Shield: Magnetic shield of magnetic powder in resin

Operating Temperature Range (Self-temperature rise is not included): -40°C~+85°C

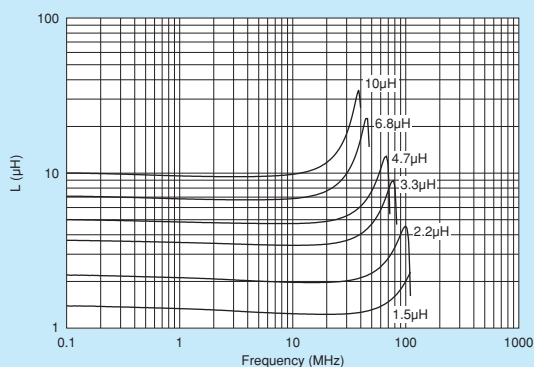
For reflow soldering only.

\*1 When applied rated current to the products, inductance will be within -30% of minimum rated inductance value.

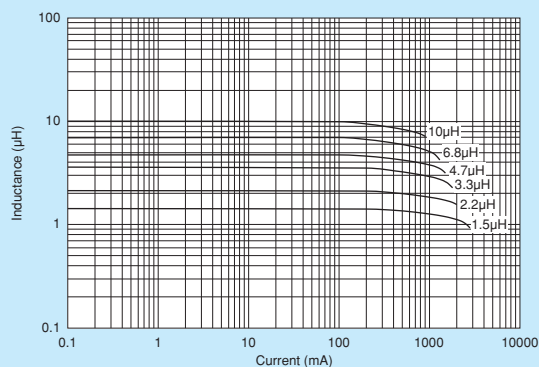
\*2 When applied rated current to the products, self-temperature rise shall be limited to 40°C max.

\*3 Keep the temperature (ambient temperature plus self-generation of heat) under 125°C.

## Inductance-Frequency Characteristics (Typ.)



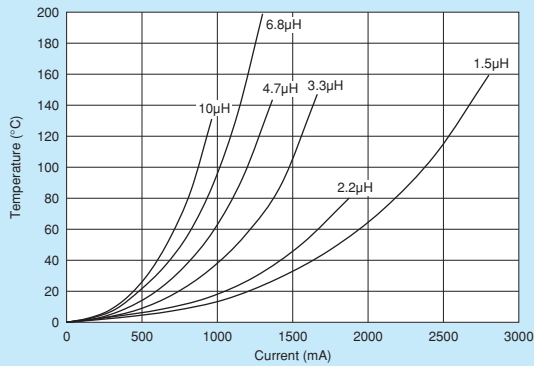
## Inductance-Current Characteristics (Typ.)



Continued on the following page.

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### ■ Temperature Rise Characteristics (Typ.)

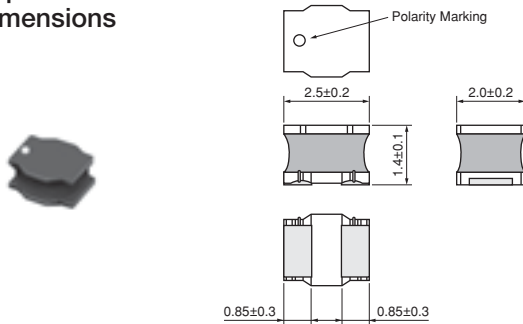


## Wire Wound Type (Ferrite Core)

# LQH2HPN\_M0

Series 1008/2520 (inch/mm)

Size Code 1008 (2520) in inch (in mm), 1.5mm max. Thickness

■ Appearance/  
Dimensions

(in mm)

## ■ Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| L    | ø180mm Embossed Taping | 2000             |



Refer to pages 102 to 106 for mounting information.

## ■ Rated Value (□: packaging code)

| Part Number    | Inductance | Rated Current *1*3<br>(Based on Inductance Change) | Rated Current *2*3<br>(Based on Temperature Rise) | DC Resistance | Self-Resonance Frequency (min.) |     |
|----------------|------------|----------------------------------------------------|---------------------------------------------------|---------------|---------------------------------|-----|
| LQH2HPN2R2MM0□ | 2.2μH ±20% | 1700mA                                             | 1250mA                                            | 0.146Ω ±20%   | 10MHz                           | Kit |
| LQH2HPN4R7NM0□ | 4.7μH ±30% | 1200mA                                             | 800mA                                             | 0.342Ω ±20%   | 10MHz                           | Kit |

Inductance Test Frequency: 1MHz Class of Magnetic Shield: Magnetic shield of magnetic powder in resin  
Operating Temperature Range (Self-temperature rise is not included): -40°C~+85°C

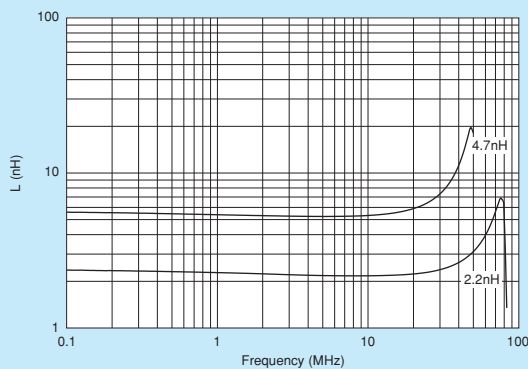
For reflow soldering only.

\*1 When applied rated current to the products, inductance will be within ±30% of initial inductance value.

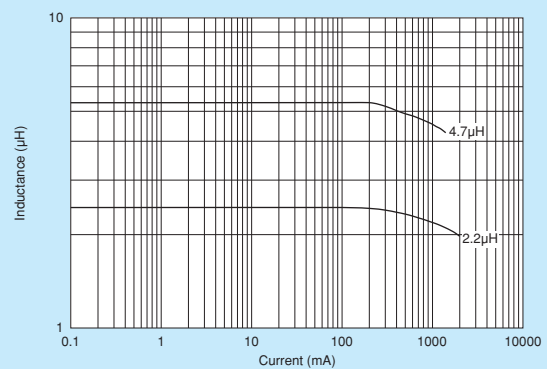
\*2 When applied rated current to the products, self-temperature rise shall be limited to 40°C max.

\*3 Keep the temperature (ambient temperature plus self-generation of heat) under 125°C.

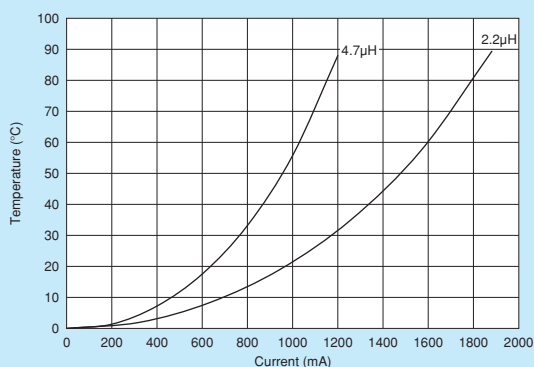
## ■ Inductance-Frequency Characteristics (Typ.)



## ■ Inductance-Current Characteristics (Typ.)



## ■ Temperature Rise Characteristics (Typ.)

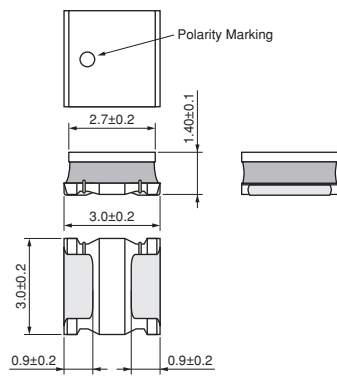


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# LQH3NPN\_M0

Series 1212/3030 (inch/mm)

Size Code 1212 (3030) in inch (in mm), 1.5mm max. Thickness

■ Appearance/  
Dimensions

(in mm)

## ■ Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| L    | ø180mm Embossed Taping | 1000             |
| K    | ø330mm Embossed Taping | 4000             |



Refer to pages 102 to 106 for mounting information.

## ■ Rated Value (□: packaging code)

| Part Number    | Inductance | Rated Current <sup>*1*3</sup><br>(Based on Inductance Change) | Rated Current <sup>*2*3</sup><br>(Based on Temperature Rise) | DC Resistance | Self-Resonance Frequency (min.) |     |
|----------------|------------|---------------------------------------------------------------|--------------------------------------------------------------|---------------|---------------------------------|-----|
| LQH3NPN1R0MM0□ | 1.0μH ±20% | 1400mA                                                        | 2050mA                                                       | 0.044Ω ±20%   | 130MHz                          | Kit |
| LQH3NPN1R0NM0□ | 1.0μH ±30% | 1400mA                                                        | 2050mA                                                       | 0.044Ω ±20%   | 130MHz                          |     |
| LQH3NPN2R2MM0□ | 2.2μH ±20% | 1250mA                                                        | 1600mA                                                       | 0.073Ω ±20%   | 90MHz                           | Kit |
| LQH3NPN2R2NM0□ | 2.2μH ±30% | 1250mA                                                        | 1600mA                                                       | 0.073Ω ±20%   | 90MHz                           |     |
| LQH3NPN3R3MM0□ | 3.3μH ±20% | 1000mA                                                        | 1450mA                                                       | 0.092Ω ±20%   | 75MHz                           | Kit |
| LQH3NPN3R3NM0□ | 3.3μH ±30% | 1000mA                                                        | 1450mA                                                       | 0.092Ω ±20%   | 75MHz                           |     |
| LQH3NPN4R7MM0□ | 4.7μH ±20% | 880mA                                                         | 1250mA                                                       | 0.13Ω ±20%    | 65MHz                           | Kit |
| LQH3NPN4R7NM0□ | 4.7μH ±30% | 880mA                                                         | 1250mA                                                       | 0.13Ω ±20%    | 65MHz                           |     |
| LQH3NPN6R8MM0□ | 6.8μH ±20% | 820mA                                                         | 1000mA                                                       | 0.20Ω ±20%    | 50MHz                           | Kit |
| LQH3NPN6R8NM0□ | 6.8μH ±30% | 820mA                                                         | 1000mA                                                       | 0.20Ω ±20%    | 50MHz                           |     |
| LQH3NPN100MM0□ | 10μH ±20%  | 550mA                                                         | 870mA                                                        | 0.26Ω ±20%    | 45MHz                           | Kit |
| LQH3NPN100NM0□ | 10μH ±30%  | 550mA                                                         | 870mA                                                        | 0.26Ω ±20%    | 45MHz                           |     |
| LQH3NPN150MM0□ | 15μH ±20%  | 520mA                                                         | 730mA                                                        | 0.36Ω ±20%    | 30MHz                           | Kit |
| LQH3NPN150NM0□ | 15μH ±30%  | 520mA                                                         | 730mA                                                        | 0.36Ω ±20%    | 30MHz                           |     |
| LQH3NPN220MM0□ | 22μH ±20%  | 410mA                                                         | 650mA                                                        | 0.51Ω ±20%    | 28MHz                           | Kit |
| LQH3NPN330MM0□ | 33μH ±20%  | 370mA                                                         | 500mA                                                        | 0.85Ω ±20%    | 22MHz                           | Kit |
| LQH3NPN470MM0□ | 47μH ±20%  | 310mA                                                         | 410mA                                                        | 1.25Ω ±20%    | 18MHz                           | Kit |
| LQH3NPN101MM0□ | 100μH ±20% | 200mA                                                         | 240mA                                                        | 3.50Ω ±20%    | 12MHz                           | Kit |

Inductance Test Frequency: 1MHz Class of Magnetic Shield: Magnetic shield of magnetic powder in resin

Operating Temperature Range (Self-temperature rise is included): -40°C~+125°C

Operating Temperature Range (Self-temperature rise is not included): -40°C~+85°C

For reflow soldering only.

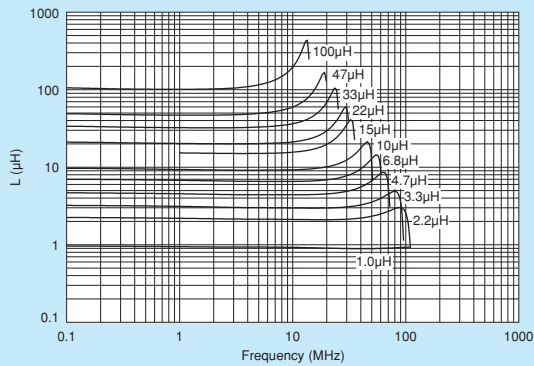
\*1 When applied rated current to the products, inductance will be within ±30% of initial inductance value.

\*2 When applied rated current to the products, self-temperature rise shall be limited to 40°C max.

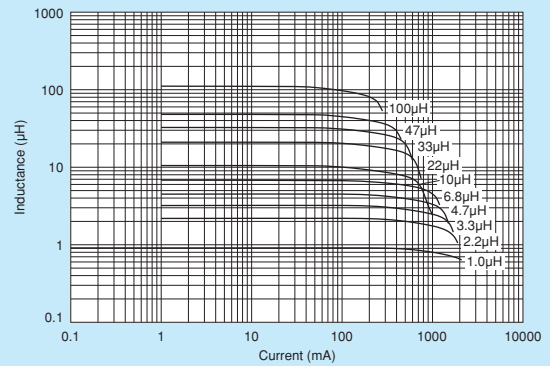
\*3 Keep the temperature (ambient temperature plus self-generation of heat) under 125°C.

Continued on the following page. ↗

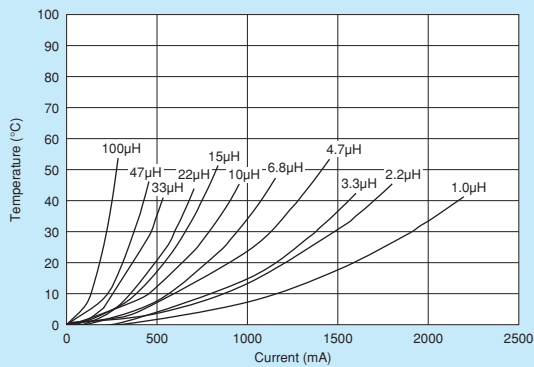
### Inductance-Frequency Characteristics (Typ.)



### Inductance-Current Characteristics (Typ.)



### Temperature Rise Characteristics (Typ.)



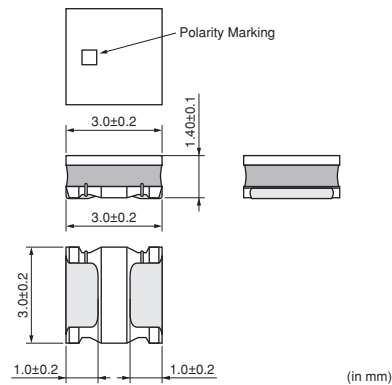
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# LQH3NPN\_MR

Series 1212/3030 (inch/mm)

## Low DC Resistance Type

### Appearance/Dimensions



### Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| E    | ø180mm Embossed Taping | 2000             |
| F    | ø330mm Embossed Taping | 8000             |



Refer to pages 102 to 106 for mounting information.

### Rated Value (□: packaging code)

| Part Number    | Inductance | Rated Current<br>(Based on Inductance Change) <sup>*1*3</sup> | Rated Current<br>(Based on Temperature Rise) <sup>*2*3</sup> | DC Resistance | Self-Resonance Frequency (min.) |     |
|----------------|------------|---------------------------------------------------------------|--------------------------------------------------------------|---------------|---------------------------------|-----|
| LQH3NPN1R0MMR□ | 1.0μH ±20% | 1600mA                                                        | 2150mA                                                       | 0.042 Ω ±20%  | 135MHz                          | Kit |
| LQH3NPN2R2MMR□ | 2.2μH ±20% | 1380mA                                                        | 1750mA                                                       | 0.068 Ω ±20%  | 75MHz                           | Kit |
| LQH3NPN3R3MMR□ | 3.3μH ±20% | 1200mA                                                        | 1550mA                                                       | 0.088 Ω ±20%  | 70MHz                           | Kit |
| LQH3NPN4R7MMR□ | 4.7μH ±20% | 950mA                                                         | 1400mA                                                       | 0.105 Ω ±20%  | 57MHz                           | Kit |
| LQH3NPN6R8MMR□ | 6.8μH ±20% | 830mA                                                         | 1250mA                                                       | 0.155 Ω ±20%  | 40MHz                           | Kit |
| LQH3NPN100MMR□ | 10μH ±20%  | 590mA                                                         | 1150mA                                                       | 0.210 Ω ±20%  | 30MHz                           | Kit |
| LQH3NPN220MMR□ | 22μH ±20%  | 430mA                                                         | 750mA                                                        | 0.480 Ω ±20%  | 20MHz                           | Kit |
| LQH3NPN330MMR□ | 33μH ±20%  | 380mA                                                         | 600mA                                                        | 0.790 Ω ±20%  | 15MHz                           | Kit |
| LQH3NPN470MMR□ | 47μH ±20%  | 320mA                                                         | 460mA                                                        | 1.140 Ω ±20%  | 10MHz                           | Kit |

Inductance Test Frequency: 1MHz Class of Magnetic Shield: Magnetic shield of magnetic powder in resin

Operating Temperature Range (Self-temperature rise is included): -40°C~+125°C

Operating Temperature Range (Self-temperature rise is not included): -40°C~+85°C

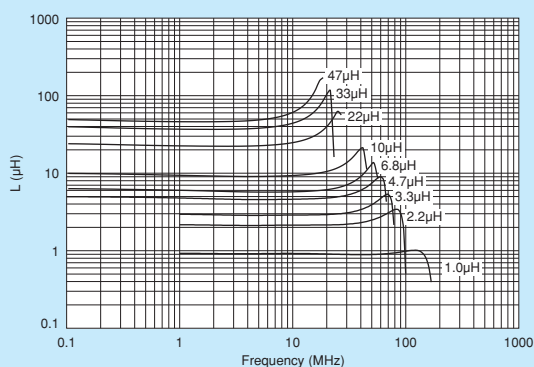
For reflow soldering only.

\*1 When applied rated current to the products, inductance will be within ±30% of initial inductance value.

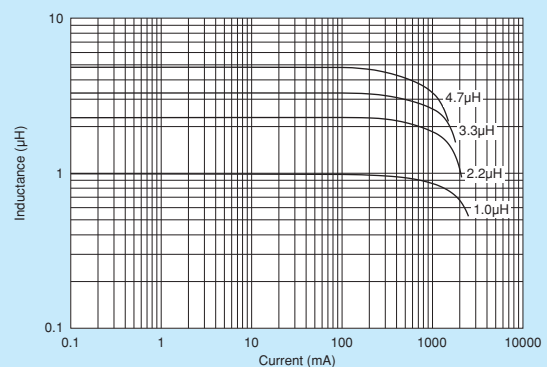
\*2 When applied rated current to the products, self-temperature rise shall be limited to 40°C max.

\*3 Keep the temperature (ambient temperature plus self-generation of heat) under 125°C.

### Inductance-Frequency Characteristics (Typ.)



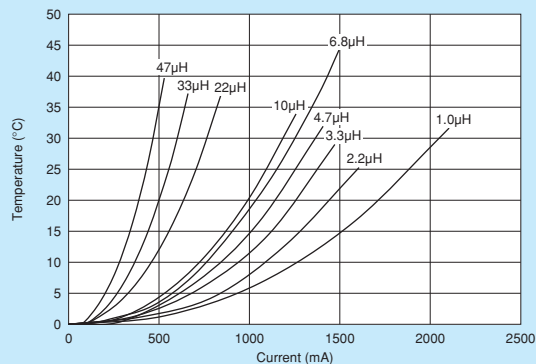
### Inductance-Current Characteristics (Typ.)



Continued on the following page.

⚠Note • Please read rating and ⚠CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.  
 • This catalog has only typical specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

### ■ Temperature Rise Characteristics (Typ.)



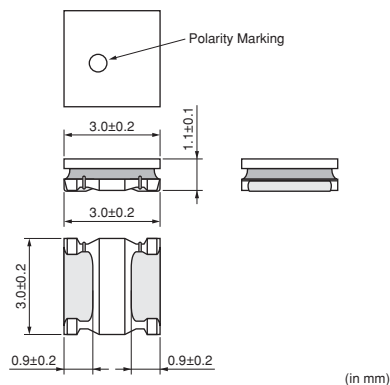
⚠Note • Please read rating and ⚠CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.  
• This catalog has only typical specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

# LQH3NPN\_J0

Series 1212/3030 (inch/mm)

Size Code 1212 (3030) in inch (in mm), 1.2mm max. Thickness

## Appearance/Dimensions



(in mm)

## Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| L    | ø180mm Embossed Taping | 1000             |
| K    | ø330mm Embossed Taping | 5000             |



Refer to pages 102 to 106 for mounting information.

## Rated Value (□: packaging code)

| Part Number    | Inductance | Rated Current <sup>*1*3</sup><br>(Based on Inductance Change) | Rated Current <sup>*2*3</sup><br>(Based on Temperature Rise) | DC Resistance | Self-Resonance Frequency (min.) |     |
|----------------|------------|---------------------------------------------------------------|--------------------------------------------------------------|---------------|---------------------------------|-----|
| LQH3NPN1R0NJ0□ | 1.0μH ±30% | 1650mA                                                        | 1620mA                                                       | 0.040 Ω ±20%  | 140MHz                          | Kit |
| LQH3NPN1R5NJ0□ | 1.5μH ±30% | 1200mA                                                        | 1500mA                                                       | 0.055 Ω ±20%  | 90MHz                           | Kit |
| LQH3NPN2R2MJ0□ | 2.2μH ±20% | 1150mA                                                        | 1460mA                                                       | 0.069 Ω ±20%  | 90MHz                           | Kit |
| LQH3NPN2R2NJ0□ | 2.2μH ±30% | 1150mA                                                        | 1460mA                                                       | 0.069 Ω ±20%  | 90MHz                           |     |
| LQH3NPN3R3MJ0□ | 3.3μH ±20% | 950mA                                                         | 1270mA                                                       | 0.105 Ω ±20%  | 70MHz                           | Kit |
| LQH3NPN3R3NJ0□ | 3.3μH ±30% | 950mA                                                         | 1270mA                                                       | 0.105 Ω ±20%  | 70MHz                           |     |
| LQH3NPN4R7MJ0□ | 4.7μH ±20% | 780mA                                                         | 1120mA                                                       | 0.130 Ω ±20%  | 65MHz                           | Kit |
| LQH3NPN4R7NJ0□ | 4.7μH ±30% | 780mA                                                         | 1120mA                                                       | 0.130 Ω ±20%  | 65MHz                           |     |
| LQH3NPN6R8MJ0□ | 6.8μH ±20% | 700mA                                                         | 850mA                                                        | 0.210 Ω ±20%  | 45MHz                           | Kit |
| LQH3NPN6R8NJ0□ | 6.8μH ±30% | 700mA                                                         | 850mA                                                        | 0.210 Ω ±20%  | 45MHz                           |     |
| LQH3NPN100MJ0□ | 10μH ±20%  | 560mA                                                         | 710mA                                                        | 0.300 Ω ±20%  | 35MHz                           | Kit |
| LQH3NPN100NJ0□ | 10μH ±30%  | 560mA                                                         | 710mA                                                        | 0.300 Ω ±20%  | 35MHz                           |     |
| LQH3NPN150MJ0□ | 15μH ±20%  | 440mA                                                         | 590mA                                                        | 0.440 Ω ±20%  | 30MHz                           | Kit |
| LQH3NPN150NJ0□ | 15μH ±30%  | 440mA                                                         | 590mA                                                        | 0.440 Ω ±20%  | 30MHz                           |     |
| LQH3NPN220MJ0□ | 22μH ±20%  | 350mA                                                         | 510mA                                                        | 0.600 Ω ±20%  | 25MHz                           | Kit |
| LQH3NPN220NJ0□ | 22μH ±30%  | 350mA                                                         | 510mA                                                        | 0.600 Ω ±20%  | 25MHz                           |     |
| LQH3NPN330MJ0□ | 33μH ±20%  | 280mA                                                         | 410mA                                                        | 0.900 Ω ±20%  | 20MHz                           | Kit |
| LQH3NPN330NJ0□ | 33μH ±30%  | 280mA                                                         | 410mA                                                        | 0.900 Ω ±20%  | 20MHz                           |     |
| LQH3NPN470MJ0□ | 47μH ±20%  | 200mA                                                         | 350mA                                                        | 1.30 Ω ±20%   | 15MHz                           | Kit |
| LQH3NPN470NJ0□ | 47μH ±30%  | 200mA                                                         | 350mA                                                        | 1.30 Ω ±20%   | 15MHz                           |     |

Inductance Test Frequency: 1MHz Class of Magnetic Shield: Magnetic shield of magnetic powder in resin

Operating Temperature Range (Self-temperature rise is included): -40°C~+125°C

Operating Temperature Range (Self-temperature rise is not included): -40°C~+85°C

For reflow soldering only.

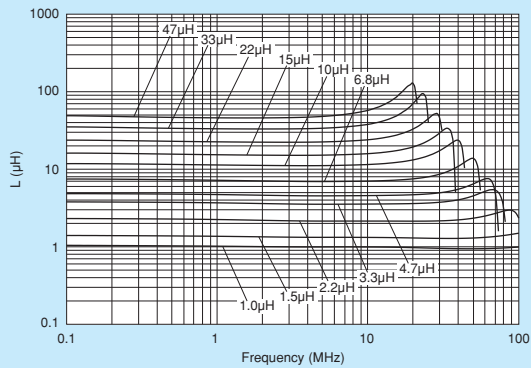
\*1 When applied rated current to the products, inductance will be within ±30% of initial inductance value.

\*2 When applied rated current to the products, self-temperature rise shall be limited to 40°C max.

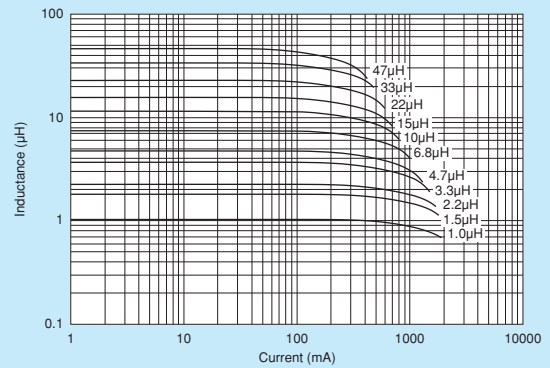
\*3 Keep the temperature (ambient temperature plus self-generation of heat) under 125°C.

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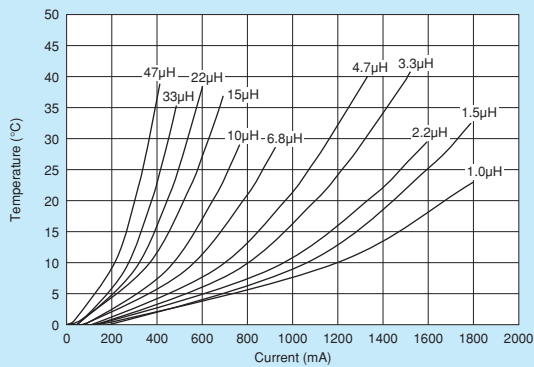
### ■ Inductance-Frequency Characteristics (Typ.)



### ■ Inductance-Current Characteristics (Typ.)



### ■ Temperature Rise Characteristics (Typ.)

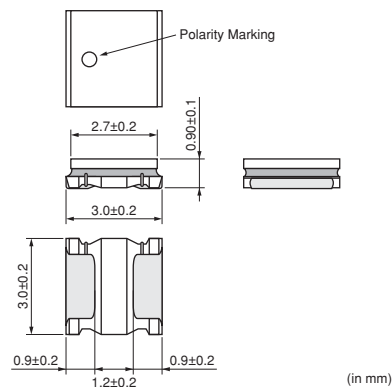


# LQH3NPN\_G0

Series 1212/3030 (inch/mm)

Size Code 1212 (3030) in inch (in mm), 1.0mm max. Thickness

## ■ Appearance/Dimensions



## ■ Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| L    | ø180mm Embossed Taping | 1500             |
| K    | ø330mm Embossed Taping | 6000             |



Refer to pages 102 to 106 for mounting information.

## ■ Rated Value (□: packaging code)

| Part Number    | Inductance | Rated Current <sup>*1*3</sup><br>(Based on Inductance Change) | Rated Current <sup>*2*3</sup><br>(Based on Temperature Rise) | DC Resistance | Self-Resonance Frequency (min.) |     |
|----------------|------------|---------------------------------------------------------------|--------------------------------------------------------------|---------------|---------------------------------|-----|
| LQH3NPN1R0NG0□ | 1.0μH ±30% | 1650mA                                                        | 1525mA                                                       | 0.08Ω ±20%    | 160MHz                          | Kit |
| LQH3NPN1R5NG0□ | 1.5μH ±30% | 1300mA                                                        | 1470mA                                                       | 0.10Ω ±20%    | 130MHz                          | Kit |
| LQH3NPN2R2NG0□ | 2.2μH ±30% | 1250mA                                                        | 1270mA                                                       | 0.14Ω ±20%    | 100MHz                          | Kit |
| LQH3NPN3R3NG0□ | 3.3μH ±30% | 850mA                                                         | 1130mA                                                       | 0.18Ω ±20%    | 75MHz                           | Kit |
| LQH3NPN4R7NG0□ | 4.7μH ±30% | 800mA                                                         | 925mA                                                        | 0.26Ω ±20%    | 60MHz                           | Kit |
| LQH3NPN6R8NG0□ | 6.8μH ±30% | 650mA                                                         | 710mA                                                        | 0.45Ω ±20%    | 48MHz                           | Kit |
| LQH3NPN100MG0□ | 10μH ±20%  | 500mA                                                         | 630mA                                                        | 0.57Ω ±20%    | 45MHz                           | Kit |
| LQH3NPN100NG0□ | 10μH ±30%  | 500mA                                                         | 630mA                                                        | 0.57Ω ±20%    | 45MHz                           |     |
| LQH3NPN150NG0□ | 15μH ±30%  | 370mA                                                         | 475mA                                                        | 0.91Ω ±20%    | 35MHz                           | Kit |
| LQH3NPN220MG0□ | 22μH ±20%  | 340mA                                                         | 430mA                                                        | 1.1Ω ±20%     | 25MHz                           | Kit |
| LQH3NPN220NG0□ | 22μH ±30%  | 340mA                                                         | 430mA                                                        | 1.1Ω ±20%     | 25MHz                           |     |
| LQH3NPN330MG0□ | 33μH ±20%  | 250mA                                                         | 345mA                                                        | 2.1Ω ±20%     | 24MHz                           | Kit |
| LQH3NPN330NG0□ | 33μH ±30%  | 250mA                                                         | 345mA                                                        | 2.1Ω ±20%     | 24MHz                           |     |
| LQH3NPN470MG0□ | 47μH ±20%  | 170mA                                                         | 270mA                                                        | 3.0Ω ±20%     | 19MHz                           | Kit |
| LQH3NPN470NG0□ | 47μH ±30%  | 170mA                                                         | 270mA                                                        | 3.0Ω ±20%     | 19MHz                           |     |
| LQH3NPN680MG0□ | 68μH ±20%  | 150mA                                                         | 235mA                                                        | 4.2Ω ±20%     | 16MHz                           | Kit |
| LQH3NPN680NG0□ | 68μH ±30%  | 150mA                                                         | 235mA                                                        | 4.2Ω ±20%     | 16MHz                           |     |
| LQH3NPN101MG0□ | 100μH ±20% | 140mA                                                         | 165mA                                                        | 8.0Ω ±20%     | 10MHz                           | Kit |
| LQH3NPN101NG0□ | 100μH ±30% | 140mA                                                         | 165mA                                                        | 8.0Ω ±20%     | 10MHz                           |     |
| LQH3NPN151MG0□ | 150μH ±20% | 110mA                                                         | 145mA                                                        | 11.0Ω ±20%    | 10MHz                           | Kit |
| LQH3NPN151NG0□ | 150μH ±30% | 110mA                                                         | 145mA                                                        | 11.0Ω ±20%    | 10MHz                           |     |
| LQH3NPN221MG0□ | 220μH ±20% | 100mA                                                         | 130mA                                                        | 14.0Ω ±20%    | 8.5MHz                          | Kit |
| LQH3NPN221NG0□ | 220μH ±30% | 100mA                                                         | 130mA                                                        | 14.0Ω ±20%    | 8.5MHz                          |     |
| LQH3NPN251MG0□ | 250μH ±20% | 80mA                                                          | 130mA                                                        | 15.0Ω ±20%    | 8.0MHz                          | Kit |
| LQH3NPN251NG0□ | 250μH ±30% | 80mA                                                          | 130mA                                                        | 15.0Ω ±20%    | 8.0MHz                          |     |

Inductance Test Frequency: 1MHz Class of Magnetic Shield: Magnetic shield of magnetic powder in resin

Operating Temperature Range (Self-temperature rise is not included): -40°C~+85°C

For reflow soldering only.

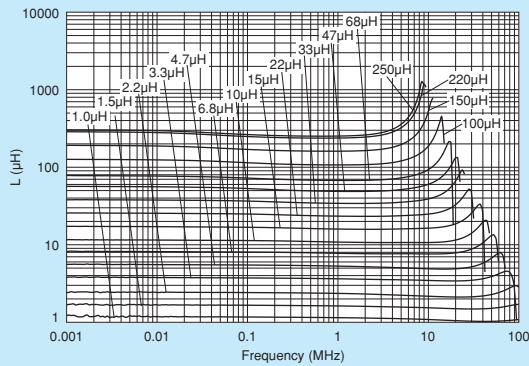
\*1 When applied rated current to the products, inductance will be within ±30% of initial inductance value.

\*2 When applied rated current to the products, self-temperature rise shall be limited to 40°C max.

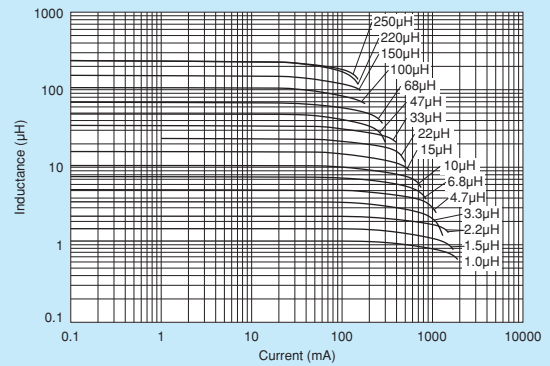
\*3 Keep the temperature (ambient temperature plus self-generation of heat) under 125°C.

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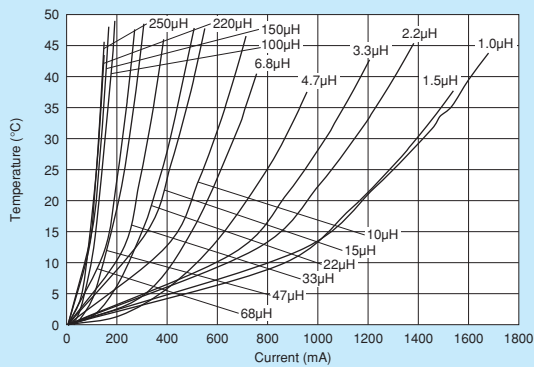
### ■ Inductance-Frequency Characteristics (Typ.)



### ■ Inductance-Current Characteristics (Typ.)



### ■ Temperature Rise Characteristics (Typ.)

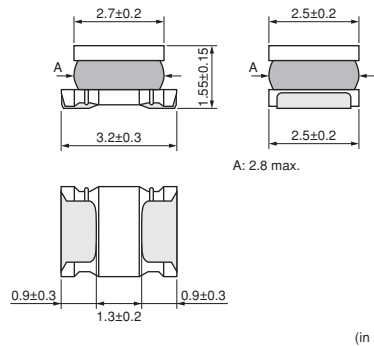


# LQH32PN\_N0

Series 1210/3225 (inch/mm)

Size Code 1210 (3225) in inch (in mm), 1.7mm max. Thickness

## ■ Appearance/Dimensions



## ■ Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| L    | ø180mm Embossed Taping | 2000             |
| K    | ø330mm Embossed Taping | 7500             |



Refer to pages 102 to 106 for mounting information.

## ■ Rated Value (□: packaging code)

| Part Number    | Inductance  | Rated Current <sup>*1*3</sup><br>(Based on Inductance Change) | Rated Current <sup>*2*3</sup><br>(Based on Temperature Rise) | DC Resistance | Self-Resonance Frequency (min.) |     |
|----------------|-------------|---------------------------------------------------------------|--------------------------------------------------------------|---------------|---------------------------------|-----|
| LQH32PNR47NN0□ | 0.47μH ±30% | 3400mA                                                        | 2550mA                                                       | 0.03Ω ±20%    | 100MHz                          | Kit |
| LQH32PN1R0NN0□ | 1.0μH ±30%  | 2300mA                                                        | 2050mA                                                       | 0.045Ω ±20%   | 100MHz                          | Kit |
| LQH32PN1R5NN0□ | 1.5μH ±30%  | 1750mA                                                        | 1750mA                                                       | 0.057Ω ±20%   | 70MHz                           | Kit |
| LQH32PN2R2NN0□ | 2.2μH ±30%  | 1550mA                                                        | 1600mA                                                       | 0.076Ω ±20%   | 70MHz                           | Kit |
| LQH32PN3R3NN0□ | 3.3μH ±30%  | 1250mA                                                        | 1200mA                                                       | 0.12Ω ±20%    | 50MHz                           | Kit |
| LQH32PN4R7NN0□ | 4.7μH ±30%  | 1000mA                                                        | 1000mA                                                       | 0.18Ω ±20%    | 40MHz                           | Kit |
| LQH32PN6R8NN0□ | 6.8μH ±30%  | 850mA                                                         | 850mA                                                        | 0.24Ω ±20%    | 40MHz                           | Kit |
| LQH32PN100MN0□ | 10μH ±20%   | 750mA                                                         | 700mA                                                        | 0.38Ω ±20%    | 30MHz                           | Kit |
| LQH32PN150MN0□ | 15μH ±20%   | 600mA                                                         | 520mA                                                        | 0.57Ω ±20%    | 20MHz                           | Kit |
| LQH32PN220MN0□ | 22μH ±20%   | 500mA                                                         | 450mA                                                        | 0.81Ω ±20%    | 20MHz                           | Kit |
| LQH32PN330MN0□ | 33μH ±20%   | 380mA                                                         | 390mA                                                        | 1.15Ω ±20%    | 13MHz                           | Kit |
| LQH32PN470MN0□ | 47μH ±20%   | 330mA                                                         | 310mA                                                        | 1.78Ω ±20%    | 11MHz                           | Kit |
| LQH32PN680MN0□ | 68μH ±20%   | 280mA                                                         | 275mA                                                        | 2.28Ω ±20%    | 11MHz                           | Kit |
| LQH32PN101MN0□ | 100μH ±20%  | 180mA                                                         | 250mA                                                        | 2.70Ω ±20%    | 8MHz                            | Kit |
| LQH32PN121MN0□ | 120μH ±20%  | 170mA                                                         | 200mA                                                        | 4.38Ω ±20%    | 8MHz                            | Kit |

Inductance Test Frequency: 1MHz Class of Magnetic Shield: Magnetic shield of magnetic powder in resin

Operating Temperature Range (Self-temperature rise is included): -40°C~+125°C

Operating Temperature Range (Self-temperature rise is not included): -40°C~+85°C

For reflow soldering only.

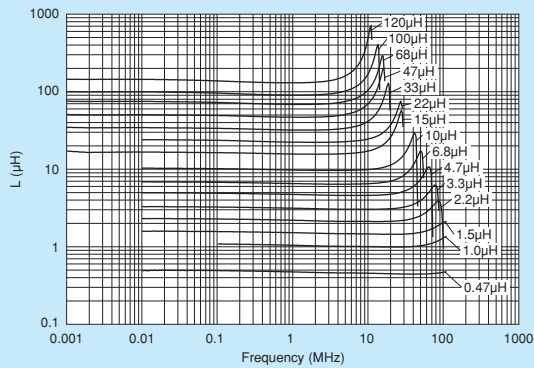
\*1 When applied rated current to the products, inductance will be within ±30% of initial inductance value.

\*2 When applied rated current to the products, self-temperature rise shall be limited to 40°C max.

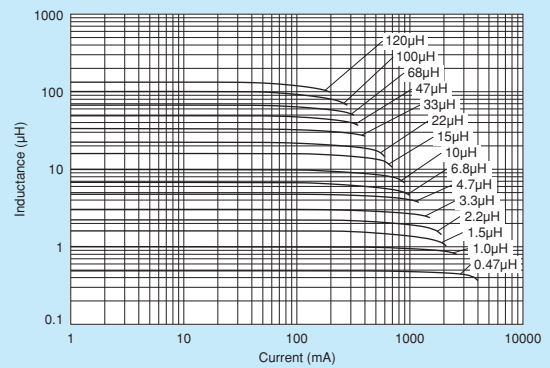
\*3 Keep the temperature (ambient temperature plus self-generation of heat) under 125°C.

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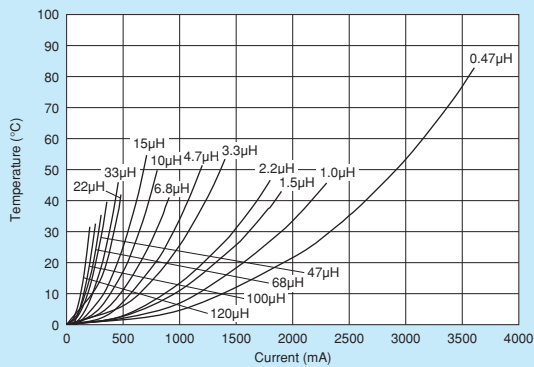
### ■ Inductance-Frequency Characteristics (Typ.)



### ■ Inductance-Current Characteristics (Typ.)



### ■ Temperature Rise Characteristics (Typ.)

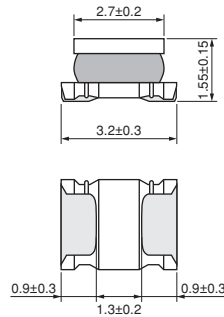


# LQH32PN\_NC

Series 1210/3225 (inch/mm)

## Bias Current Characteristics Improved

### ■ Appearance/Dimensions



(in mm)

### ■ Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| L    | ø180mm Embossed Taping | 2000             |
| K    | ø330mm Embossed Taping | 7500             |



Refer to pages 102 to 106 for mounting information.

### ■ Rated Value (□: packaging code)

| Part Number    | Inductance  | Rated Current <sup>*1*3</sup><br>(Based on Inductance Change) | Rated Current <sup>*2*3</sup><br>(Based on Temperature Rise) | DC Resistance | Self-Resonance Frequency (min.) |     |
|----------------|-------------|---------------------------------------------------------------|--------------------------------------------------------------|---------------|---------------------------------|-----|
| LQH32PNR47NNC□ | 0.47μH ±30% | 4400mA                                                        | 2900mA                                                       | 0.024Ω ±20%   | 100MHz                          | Kit |
| LQH32PN1R0NNC□ | 1.0μH ±30%  | 3000mA                                                        | 2500mA                                                       | 0.036Ω ±20%   | 100MHz                          | Kit |
| LQH32PN1R5NNC□ | 1.5μH ±30%  | 2600mA                                                        | 2100mA                                                       | 0.053Ω ±20%   | 70MHz                           | Kit |
| LQH32PN2R2NNC□ | 2.2μH ±30%  | 2000mA                                                        | 1850mA                                                       | 0.064Ω ±20%   | 70MHz                           | Kit |
| LQH32PN3R3NNC□ | 3.3μH ±30%  | 1900mA                                                        | 1550mA                                                       | 0.100Ω ±20%   | 50MHz                           | Kit |
| LQH32PN4R7NNC□ | 4.7μH ±30%  | 1600mA                                                        | 1200mA                                                       | 0.155Ω ±20%   | 40MHz                           | Kit |
| LQH32PN6R8NNC□ | 6.8μH ±30%  | 1300mA                                                        | 1100mA                                                       | 0.220Ω ±20%   | 40MHz                           | Kit |
| LQH32PN100MNC□ | 10μH ±20%   | 1000mA                                                        | 900mA                                                        | 0.295Ω ±20%   | 30MHz                           | Kit |
| LQH32PN150MNC□ | 15μH ±20%   | 800mA                                                         | 700mA                                                        | 0.475Ω ±20%   | 20MHz                           | Kit |
| LQH32PN220MNC□ | 22μH ±20%   | 650mA                                                         | 550mA                                                        | 0.685Ω ±20%   | 20MHz                           | Kit |

Inductance Test Frequency: 1MHz Class of Magnetic Shield: Magnetic shield of magnetic powder in resin

Operating Temperature Range (Self-temperature rise is included): -40°C~+125°C

Operating Temperature Range (Self-temperature rise is not included): -40°C~+85°C

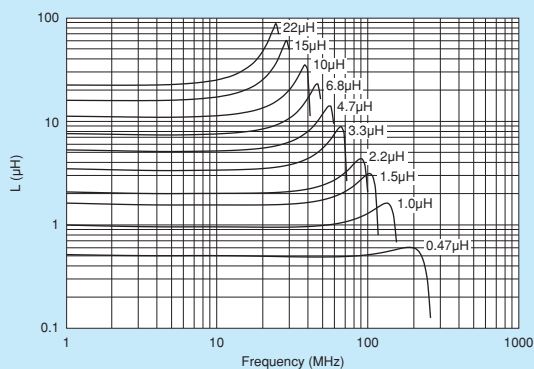
For reflow soldering only.

\*1 When applied rated current to the products, inductance will be within ±30% of initial inductance value.

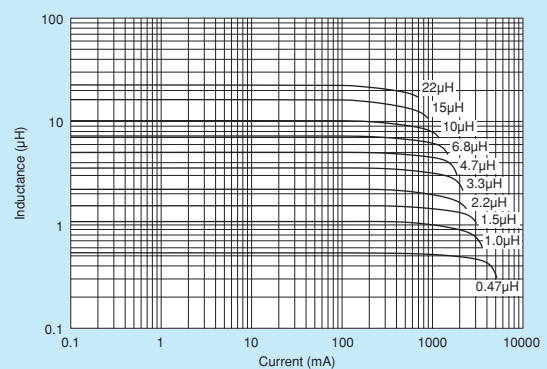
\*2 When applied rated current to the products, self-temperature rise shall be limited to 40°C max.

\*3 Keep the temperature (ambient temperature plus self-generation of heat) under 125°C.

### ■ Inductance-Frequency Characteristics (Typ.)



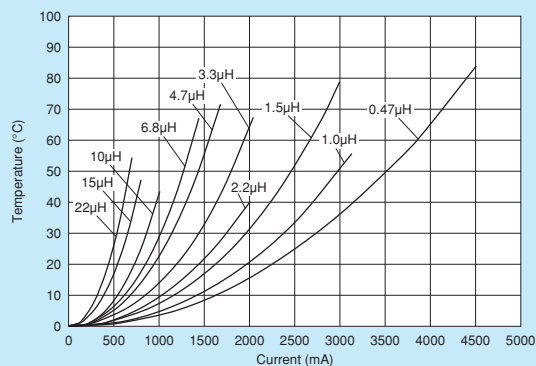
### ■ Inductance-Current Characteristics (Typ.)



Continued on the following page.

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### ■ Temperature Rise Characteristics (Typ.)



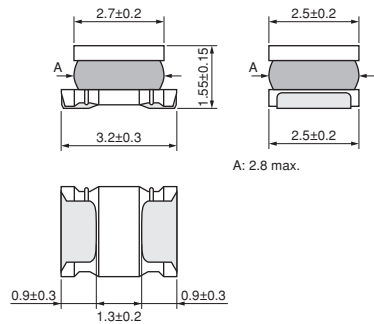
⚠Note • Please read rating and ⚠CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.  
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# LQH32PB\_N0

Series 1210/3225 (inch/mm)

1.7mm max. Thickness, 105°C

## Appearance/Dimensions



(in mm)

## Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| L    | ø180mm Embossed Taping | 2000             |
| K    | ø330mm Embossed Taping | 7500             |



Refer to pages 102 to 106 for mounting information.

## Rated Value (□: packaging code)

| Part Number    | Inductance  | Rated Current <sup>*1*3</sup><br>(Based on Inductance Change) | Rated Current <sup>*2*3</sup><br>(Based on Temperature Rise) | DC Resistance | Self-Resonance Frequency (min.) |         |
|----------------|-------------|---------------------------------------------------------------|--------------------------------------------------------------|---------------|---------------------------------|---------|
| LQH32PBR47NN0□ | 0.47μH ±30% | 3400mA                                                        | 2550mA                                                       | 0.030Ω ±20%   | 100MHz                          | New Kit |
| LQH32PB1R0NN0□ | 1.0μH ±30%  | 2300mA                                                        | 2050mA                                                       | 0.045Ω ±20%   | 100MHz                          | New Kit |
| LQH32PB1R5NN0□ | 1.5μH ±30%  | 1750mA                                                        | 1750mA                                                       | 0.057Ω ±20%   | 70MHz                           | New Kit |
| LQH32PB2R2NN0□ | 2.2μH ±30%  | 1550mA                                                        | 1600mA                                                       | 0.076Ω ±20%   | 70MHz                           | New Kit |
| LQH32PB3R3NN0□ | 3.3μH ±30%  | 1250mA                                                        | 1200mA                                                       | 0.12Ω ±20%    | 50MHz                           | New Kit |
| LQH32PB4R7NN0□ | 4.7μH ±30%  | 1000mA                                                        | 1000mA                                                       | 0.18Ω ±20%    | 40MHz                           | New Kit |
| LQH32PB6R8NN0□ | 6.8μH ±30%  | 850mA                                                         | 850mA                                                        | 0.24Ω ±20%    | 40MHz                           | New Kit |
| LQH32PB100MN0□ | 10μH ±20%   | 750mA                                                         | 700mA                                                        | 0.38Ω ±20%    | 30MHz                           | New Kit |
| LQH32PB150MN0□ | 15μH ±20%   | 600mA                                                         | 520mA                                                        | 0.57Ω ±20%    | 20MHz                           | New Kit |
| LQH32PB220MN0□ | 22μH ±20%   | 500mA                                                         | 450mA                                                        | 0.81Ω ±20%    | 20MHz                           | New Kit |
| LQH32PB330MN0□ | 33μH ±20%   | 380mA                                                         | 390mA                                                        | 1.15Ω ±20%    | 13MHz                           | New Kit |
| LQH32PB470MN0□ | 47μH ±20%   | 330mA                                                         | 310mA                                                        | 1.78Ω ±20%    | 11MHz                           | New Kit |
| LQH32PB680MN0□ | 68μH ±20%   | 280mA                                                         | 275mA                                                        | 2.28Ω ±20%    | 11MHz                           | New Kit |
| LQH32PB101MN0□ | 100μH ±20%  | 180mA                                                         | 250mA                                                        | 2.7Ω ±20%     | 8MHz                            | New Kit |
| LQH32PB121MN0□ | 120μH ±20%  | 170mA                                                         | 200mA                                                        | 4.38Ω ±20%    | 8MHz                            | New Kit |

Inductance Test Frequency: 1MHz Class of Magnetic Shield: Magnetic shield of magnetic powder in resin

Operating Temperature Range (Self-temperature rise is included): -40°C~+125°C

Operating Temperature Range (Self-temperature rise is not included): -40°C~+105°C

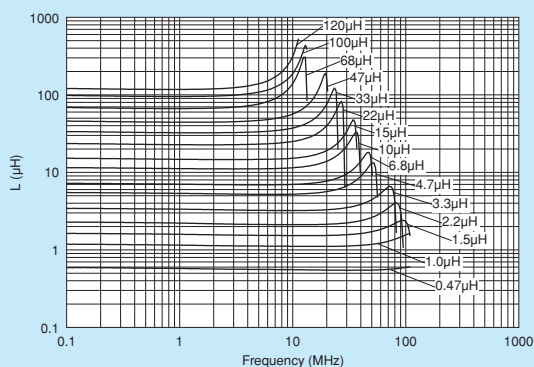
For reflow soldering only.

\*1 When applied rated current to the products, inductance will be within ±30% of initial inductance value.

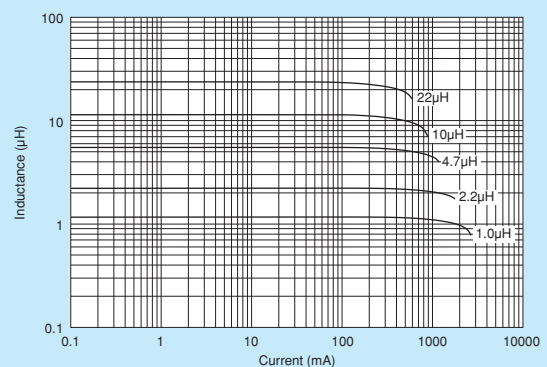
\*2 When applied rated current to the products, self-temperature rise shall be limited to 40°C max.

\*3 Keep the temperature (ambient temperature plus self-generation of heat) under 125°C.

## Inductance-Frequency Characteristics (Typ.)



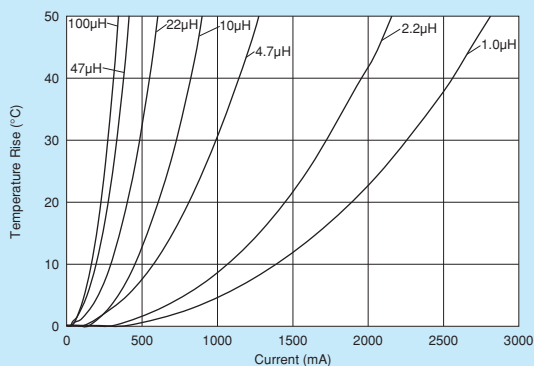
## Inductance-Current Characteristics (Typ.)



Continued on the following page.

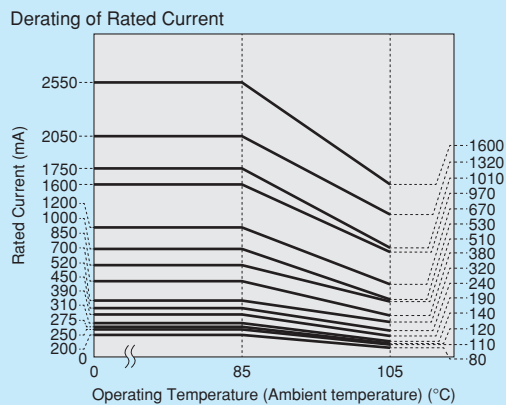
△Note • Please read rating and △CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.  
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### ■ Temperature Rise Characteristics (Typ.)



### ■ Derating of Rated Current

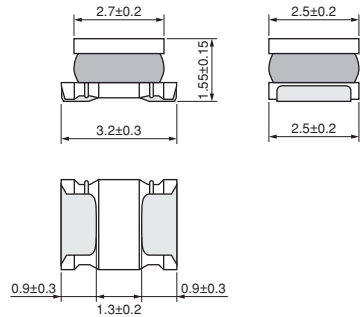
In operating temperature exceeding +85°C, derating of current is necessary for LQH32PB\_N0 series. Please apply the derating curve shown in chart according to the operating temperature.



# LQH32PB\_NC Series 1210/3225 (inch/mm)

## 1.7mm max. Thickness, 105°C

### ■ Appearance/Dimensions



(in mm)

### ■ Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| L    | ø180mm Embossed Taping | 2000             |
| K    | ø330mm Embossed Taping | 7500             |



Refer to pages 102 to 106 for mounting information.

### ■ Rated Value (□: packaging code)

| Part Number    | Inductance  | Rated Current <sup>*1*3</sup><br>(Based on Inductance Change) | Rated Current <sup>*2*3</sup><br>(Based on Temperature Rise) | DC Resistance | Self-Resonance Frequency (min.) |         |
|----------------|-------------|---------------------------------------------------------------|--------------------------------------------------------------|---------------|---------------------------------|---------|
| LQH32PBR47NNC□ | 0.47μH ±30% | 4400mA                                                        | 2900mA                                                       | 0.024Ω ±20%   | 100MHz                          | New Kit |
| LQH32PB1R0NNC□ | 1.0μH ±30%  | 3000mA                                                        | 2500mA                                                       | 0.036Ω ±20%   | 100MHz                          | New Kit |
| LQH32PB1R5NNC□ | 1.5μH ±30%  | 2600mA                                                        | 2100mA                                                       | 0.053Ω ±20%   | 70MHz                           | New Kit |
| LQH32PB2R2NNC□ | 2.2μH ±30%  | 2000mA                                                        | 1850mA                                                       | 0.064Ω ±20%   | 70MHz                           | New Kit |
| LQH32PB3R3NNC□ | 3.3μH ±30%  | 1900mA                                                        | 1550mA                                                       | 0.1Ω ±20%     | 50MHz                           | New Kit |
| LQH32PB4R7NNC□ | 4.7μH ±30%  | 1600mA                                                        | 1200mA                                                       | 0.155Ω ±20%   | 40MHz                           | New Kit |
| LQH32PB6R8NNC□ | 6.8μH ±30%  | 1300mA                                                        | 1100mA                                                       | 0.22Ω ±20%    | 40MHz                           | New Kit |
| LQH32PB100MNC□ | 10μH ±20%   | 1000mA                                                        | 900mA                                                        | 0.295Ω ±20%   | 30MHz                           | New Kit |
| LQH32PB150MNC□ | 15μH ±20%   | 800mA                                                         | 700mA                                                        | 0.475Ω ±20%   | 20MHz                           | New Kit |
| LQH32PB220MNC□ | 22μH ±20%   | 650mA                                                         | 550mA                                                        | 0.685Ω ±20%   | 20MHz                           | New Kit |

Inductance Test Frequency: 1MHz Class of Magnetic Shield: Magnetic shield of magnetic powder in resin

Operating Temperature Range (Self-temperature rise is included): -40°C~+125°C

Operating Temperature Range (Self-temperature rise is not included): -40°C~+105°C

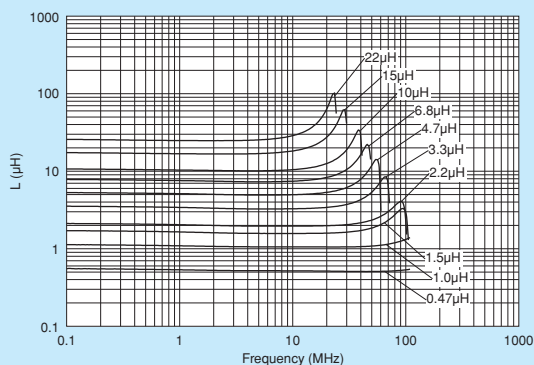
For reflow soldering only.

\*1 When applied rated current to the products, inductance will be within ±30% of initial inductance value.

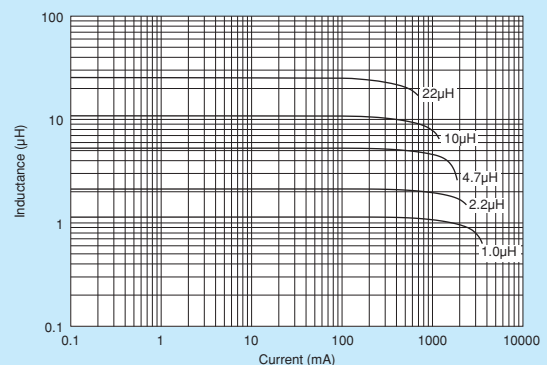
\*2 When applied rated current to the products, self-temperature rise shall be limited to 40°C max.

\*3 Keep the temperature (ambient temperature plus self-generation of heat) under 125°C.

### ■ Inductance-Frequency Characteristics (Typ.)



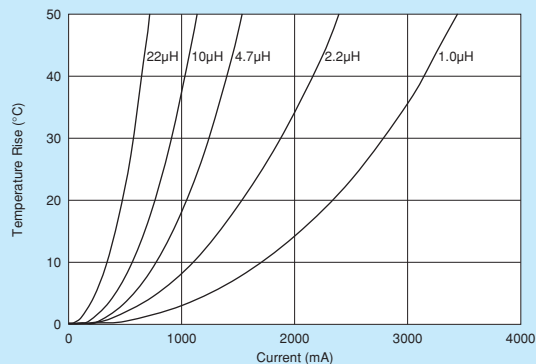
### ■ Inductance-Current Characteristics (Typ.)



Continued on the following page.

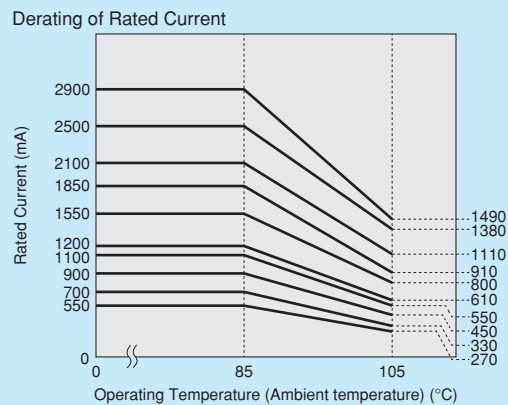
⚠Note • Please read rating and ⚠CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.  
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### ■ Temperature Rise Characteristics (Typ.)



### ■ Derating of Rated Current

In operating temperature exceeding +85°C, derating of current is necessary for LQH32PB\_NC series. Please apply the derating curve shown in chart according to the operating temperature.

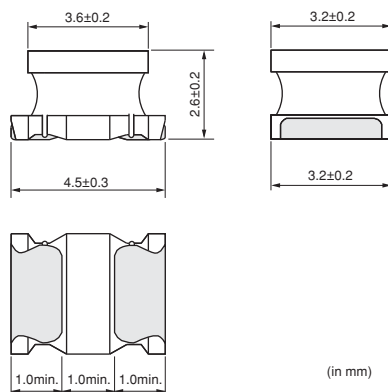


# LQH43PN\_26

Series 1812/4532 (inch/mm)

Size Code 1812 (4532) in inch (in mm), 2.8mm max. Thickness

## Appearance/Dimensions



## Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| L    | ø180mm Embossed Taping | 500              |
| K    | ø330mm Embossed Taping | 2500             |



Refer to pages 102 to 106 for mounting information.

## Rated Value (□: packaging code)

| Part Number    | Inductance | Rated Current <sup>*1*3</sup><br>(Based on Inductance Change) | Rated Current <sup>*2*3</sup><br>(Based on Temperature Rise) | DC Resistance | Self-Resonance Frequency (min.) |     |
|----------------|------------|---------------------------------------------------------------|--------------------------------------------------------------|---------------|---------------------------------|-----|
| LQH43PN1R0N26□ | 1.0μH ±30% | 3400mA                                                        | 3300mA                                                       | 0.026Ω ±20%   | 100MHz                          | Kit |
| LQH43PN2R2M26□ | 2.2μH ±20% | 2300mA                                                        | 2500mA                                                       | 0.042Ω ±20%   | 45MHz                           | Kit |
| LQH43PN3R3M26□ | 3.3μH ±20% | 1800mA                                                        | 2100mA                                                       | 0.052Ω ±20%   | 40MHz                           | Kit |
| LQH43PN4R7M26□ | 4.7μH ±20% | 1400mA                                                        | 1600mA                                                       | 0.075Ω ±20%   | 35MHz                           | Kit |
| LQH43PN6R8M26□ | 6.8μH ±20% | 1200mA                                                        | 1400mA                                                       | 0.098Ω ±20%   | 30MHz                           | Kit |
| LQH43PN8R2M26□ | 8.2μH ±20% | 1100mA                                                        | 1300mA                                                       | 0.128Ω ±20%   | 25MHz                           | Kit |
| LQH43PN100M26□ | 10μH ±20%  | 1050mA                                                        | 1170mA                                                       | 0.147Ω ±20%   | 20MHz                           | Kit |
| LQH43PN220M26□ | 22μH ±20%  | 700mA                                                         | 780mA                                                        | 0.327Ω ±20%   | 15MHz                           | Kit |
| LQH43PN470M26□ | 47μH ±20%  | 470mA                                                         | 520mA                                                        | 0.718Ω ±20%   | 8MHz                            | Kit |
| LQH43PN101M26□ | 100μH ±20% | 320mA                                                         | 320mA                                                        | 1.538Ω ±20%   | 4MHz                            | Kit |
| LQH43PN151M26□ | 150μH ±20% | 280mA                                                         | 260mA                                                        | 2.362Ω ±20%   | 3MHz                            | Kit |
| LQH43PN221M26□ | 220μH ±20% | 220mA                                                         | 240mA                                                        | 2.900Ω ±20%   | 2MHz                            | Kit |

Inductance Test Frequency: 1MHz Class of Magnetic Shield: Magnetic shield of magnetic powder in resin

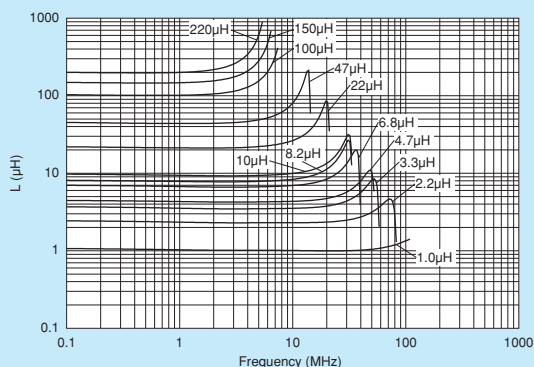
Operating Temperature Range (Self-temperature rise is not included): -40°C~+85°C

\*1 When applied rated current to the products, inductance will be within ±30% of initial inductance value.

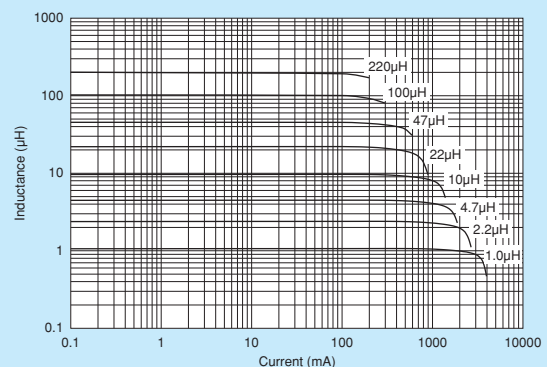
\*2 When applied rated current to the products, self-temperature rise shall be limited to 40°C max.

\*3 Keep the temperature (ambient temperature plus self-generation of heat) under 125°C.

## Inductance-Frequency Characteristics (Typ.)



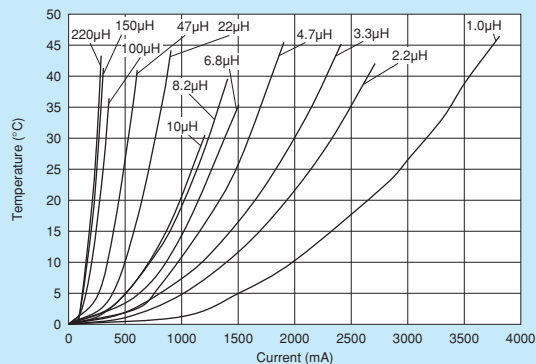
## Inductance-Current Characteristics (Typ.)



Continued on the following page.

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### ■ Temperature Rise Characteristics (Typ.)

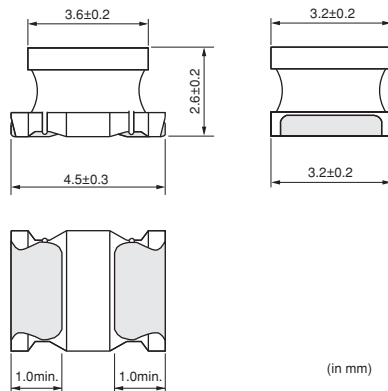


# LQH43PB\_26

Series 1812/4532 (inch/mm)

For Automotive Use \*Expect for the portion asked for high reliability ex. power train

## Appearance/Dimensions



## Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| L    | ø180mm Embossed Taping | 500              |
| K    | ø330mm Embossed Taping | 2500             |



Refer to pages 102 to 106 for mounting information.

## Rated Value (□: packaging code)

| Part Number    | Inductance | Rated Current *1*3<br>(Based on Inductance Change) | Rated Current *2*3<br>(Based on Temperature Rise) | DC Resistance | Self-Resonance Frequency (min.) |     |
|----------------|------------|----------------------------------------------------|---------------------------------------------------|---------------|---------------------------------|-----|
| LQH43PB1R0N26□ | 1.0μH ±30% | 3400mA                                             | 3300mA                                            | 0.026Ω ±20%   | 100MHz                          | New |
| LQH43PB2R2M26□ | 2.2μH ±20% | 2300mA                                             | 2500mA                                            | 0.042Ω ±20%   | 45MHz                           | New |
| LQH43PB3R3M26□ | 3.3μH ±20% | 1800mA                                             | 2100mA                                            | 0.052Ω ±20%   | 40MHz                           | New |
| LQH43PB4R7M26□ | 4.7μH ±20% | 1400mA                                             | 1600mA                                            | 0.075Ω ±20%   | 35MHz                           | New |
| LQH43PB6R8M26□ | 6.8μH ±20% | 1200mA                                             | 1400mA                                            | 0.098Ω ±20%   | 30MHz                           | New |
| LQH43PB8R2M26□ | 8.2μH ±20% | 1100mA                                             | 1300mA                                            | 0.128Ω ±20%   | 25MHz                           | New |
| LQH43PB100M26□ | 10μH ±20%  | 1050mA                                             | 1170mA                                            | 0.147Ω ±20%   | 20MHz                           | New |
| LQH43PB220M26□ | 22μH ±20%  | 700mA                                              | 780mA                                             | 0.327Ω ±20%   | 15MHz                           | New |
| LQH43PB470M26□ | 47μH ±20%  | 470mA                                              | 520mA                                             | 0.718Ω ±20%   | 8MHz                            | New |
| LQH43PB101M26□ | 100μH ±20% | 320mA                                              | 320mA                                             | 1.538Ω ±20%   | 4MHz                            | New |
| LQH43PB151M26□ | 150μH ±20% | 280mA                                              | 260mA                                             | 2.362Ω ±20%   | 3MHz                            | New |
| LQH43PB221M26□ | 220μH ±20% | 220mA                                              | 240mA                                             | 2.900Ω ±20%   | 2MHz                            | New |

Inductance Test Frequency: 1MHz Class of Magnetic Shield: Magnetic shield of magnetic powder in resin

Operating Temperature Range (Self-temperature rise is included): -40°C~+125°C

Operating Temperature Range (Self-temperature rise is not included): -40°C~+105°C

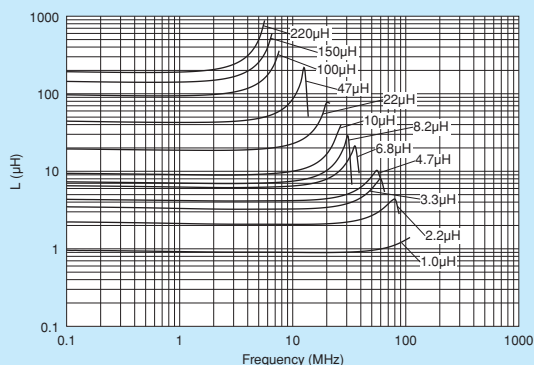
For reflow soldering only.

\*1 When applied rated current to the products, inductance will be within ±30% of initial inductance value.

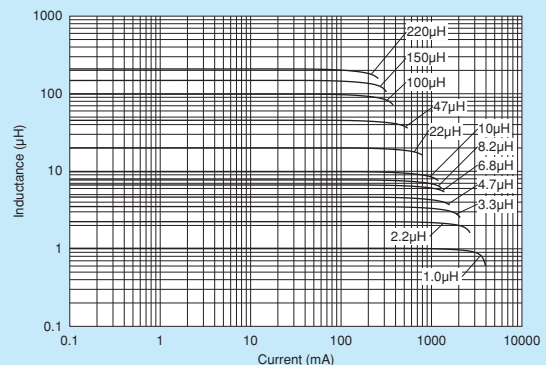
\*2 When applied rated current to the products, self-temperature rise shall be limited to 40°C max.

\*3 Keep the temperature (ambient temperature plus self-generation of heat) under 125°C.

## Inductance-Frequency Characteristics (Typ.)



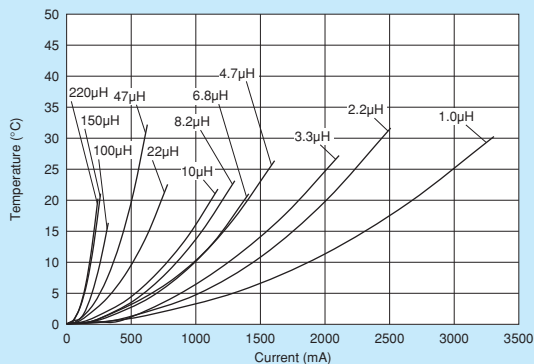
## Inductance-Current Characteristics (Typ.)



Continued on the following page.

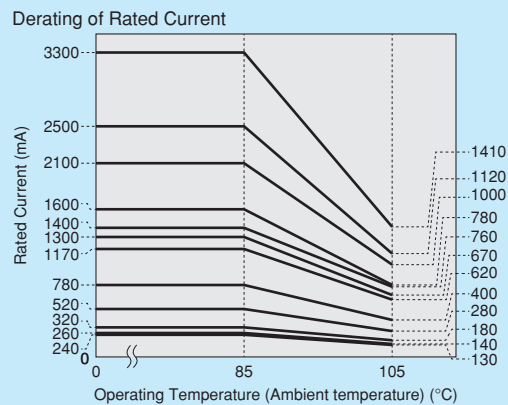
△Note • Please read rating and △CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.  
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### ■ Temperature Rise Characteristics (Typ.)



### ■ Derating of Rated Current

In operating temperature exceeding +85°C, derating of current is necessary for LQH43PB series. Please apply the derating curve shown in chart according to the operating temperature.

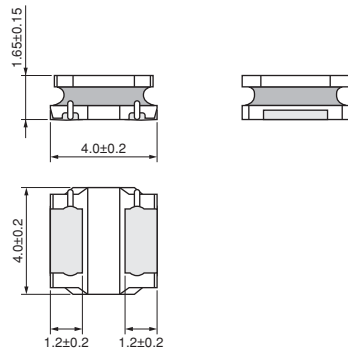


# LQH44PN\_P0

Series 1515/4040 (inch/mm)

Size Code 1515 (4040) in inch (in mm), 1.8mm max. Thickness

## Appearance/Dimensions



(in mm)

## Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| L    | ø180mm Embossed Taping | 1000             |
| K    | ø330mm Embossed Taping | 3500             |



Refer to pages 102 to 106 for mounting information.

## Rated Value (□: packaging code)

| Part Number    | Inductance | Rated Current <sup>*1*3</sup><br>(Based on Inductance Change) | Rated Current <sup>*2*3</sup><br>(Based on Temperature Rise) | DC Resistance | Self-Resonance Frequency (min.) |     |
|----------------|------------|---------------------------------------------------------------|--------------------------------------------------------------|---------------|---------------------------------|-----|
| LQH44PN1R0NP0□ | 1.0μH ±30% | 2950mA                                                        | 2450mA                                                       | 0.030Ω ±20%   | 90MHz                           | Kit |
| LQH44PN2R2MP0□ | 2.2μH ±20% | 2500mA                                                        | 1800mA                                                       | 0.049Ω ±20%   | 70MHz                           | Kit |
| LQH44PN3R3MP0□ | 3.3μH ±20% | 2100mA                                                        | 1770mA                                                       | 0.065Ω ±20%   | 50MHz                           | Kit |
| LQH44PN4R7MP0□ | 4.7μH ±20% | 1700mA                                                        | 1700mA                                                       | 0.080Ω ±20%   | 40MHz                           | Kit |
| LQH44PN6R8MP0□ | 6.8μH ±20% | 1400mA                                                        | 1340mA                                                       | 0.12Ω ±20%    | 35MHz                           | Kit |
| LQH44PN100MP0□ | 10μH ±20%  | 1150mA                                                        | 1170mA                                                       | 0.16Ω ±20%    | 25MHz                           | Kit |
| LQH44PN220MP0□ | 22μH ±20%  | 800mA                                                         | 790mA                                                        | 0.37Ω ±20%    | 17MHz                           | Kit |

Inductance Test Frequency: 1MHz Class of Magnetic Shield: Magnetic shield of magnetic powder in resin

Operating Temperature Range (Self-temperature rise is included): -40°C~+125°C

Operating Temperature Range (Self-temperature rise is not included): -40°C~+85°C

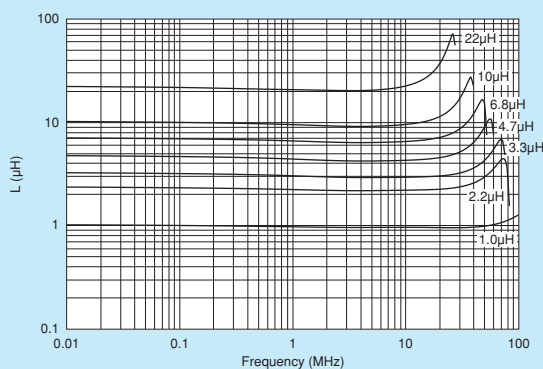
For reflow soldering only.

\*1 When applied rated current to the products, inductance will be within ±30% of initial inductance value.

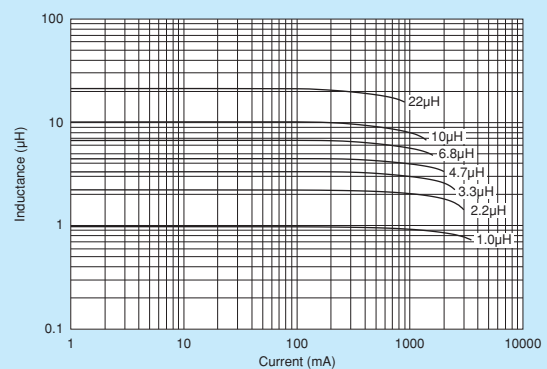
\*2 When applied rated current to the products, self-temperature rise shall be limited to 40°C max.

\*3 Keep the temperature (ambient temperature plus self-generation of heat) under 125°C.

## Inductance-Frequency Characteristics (Typ.)



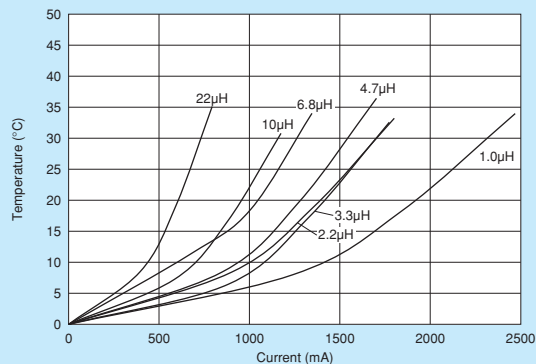
## Inductance-Current Characteristics (Typ.)



Continued on the following page.

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### ■ Temperature Rise Characteristics (Typ.)

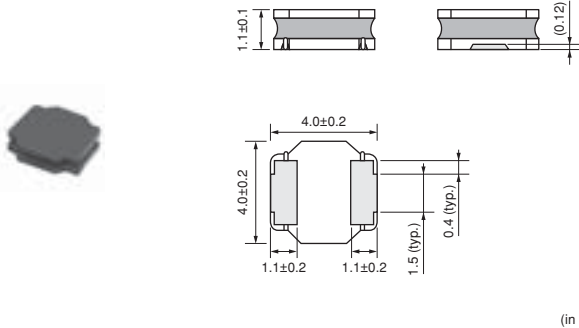


# LQH44PN\_J0

Series 1515/4040 (inch/mm)

Size Code 1515 (4040) in inch (in mm), 1.2mm max. Thickness

## Appearance/Dimensions



## Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| L    | ø180mm Embossed Taping | 1000             |
| K    | ø330mm Embossed Taping | 3500             |



Refer to pages 102 to 106 for mounting information.

## Rated Value (□: packaging code)

| Part Number    | Inductance | Rated Current *1*3<br>(Based on Inductance Change) | Rated Current *2*3<br>(Based on Temperature Rise) | DC Resistance | Self-Resonance Frequency (min.) |     |
|----------------|------------|----------------------------------------------------|---------------------------------------------------|---------------|---------------------------------|-----|
| LQH44PN1R0NJ0□ | 1.0μH ±30% | 2000mA                                             | 1530mA                                            | 0.048Ω ±20%   | 130MHz                          | Kit |
| LQH44PN1R5MJ0□ | 1.5μH ±20% | 1600mA                                             | 1380mA                                            | 0.061Ω ±20%   | 90MHz                           | Kit |
| LQH44PN2R2MJ0□ | 2.2μH ±20% | 1320mA                                             | 1230mA                                            | 0.074Ω ±20%   | 68MHz                           | Kit |
| LQH44PN3R3MJ0□ | 3.3μH ±20% | 900mA                                              | 1000mA                                            | 0.088Ω ±20%   | 55MHz                           | Kit |
| LQH44PN4R7MJ0□ | 4.7μH ±20% | 840mA                                              | 980mA                                             | 0.117Ω ±20%   | 50MHz                           | Kit |
| LQH44PN6R8MJ0□ | 6.8μH ±20% | 720mA                                              | 860mA                                             | 0.143Ω ±20%   | 38MHz                           | Kit |
| LQH44PN100MJ0□ | 10μH ±20%  | 560mA                                              | 790mA                                             | 0.207Ω ±20%   | 30MHz                           | Kit |
| LQH44PN150MJ0□ | 15μH ±20%  | 430mA                                              | 610mA                                             | 0.385Ω ±20%   | 25MHz                           | Kit |
| LQH44PN220MJ0□ | 22μH ±20%  | 400mA                                              | 550mA                                             | 0.480Ω ±20%   | 18MHz                           | Kit |
| LQH44PN330MJ0□ | 33μH ±20%  | 360mA                                              | 430mA                                             | 0.740Ω ±20%   | 15MHz                           | Kit |
| LQH44PN470MJ0□ | 47μH ±20%  | 300mA                                              | 380mA                                             | 1.014Ω ±20%   | 13MHz                           | Kit |

Inductance Test Frequency: 100kHz Class of Magnetic Shield: Magnetic shield of magnetic powder in resin

Operating Temperature Range (Self-temperature rise is included): -40°C~+125°C

Operating Temperature Range (Self-temperature rise is not included): -40°C~+85°C

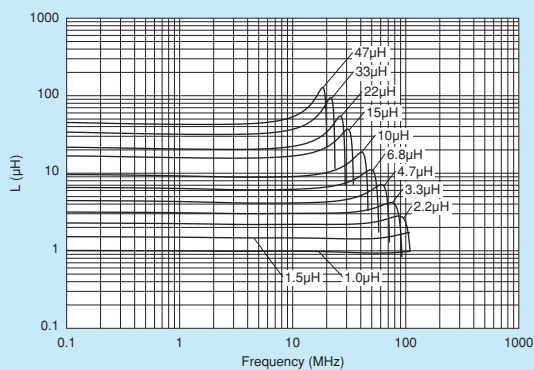
For reflow soldering only.

\*1 When applied rated current to the products, inductance will be within ±30% of initial inductance value.

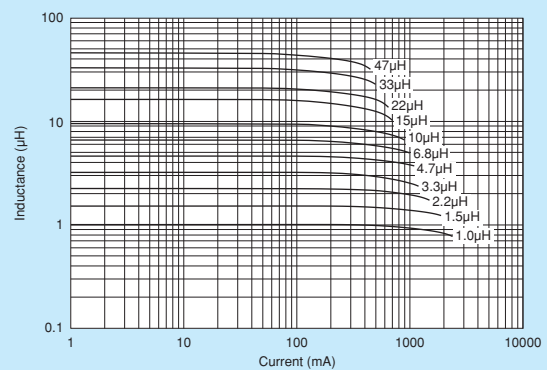
\*2 When applied rated current to the products, self-temperature rise shall be limited to 40°C max.

\*3 Keep the temperature (ambient temperature plus self-generation of heat) under 125°C.

## Inductance-Frequency Characteristics (Typ.)



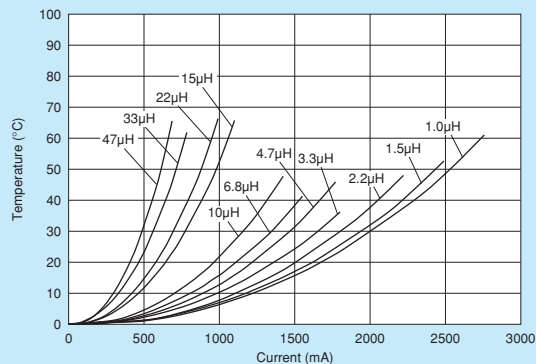
## Inductance-Current Characteristics (Typ.)



Continued on the following page.

△Note • Please read rating and △CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.  
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### ■ Temperature Rise Characteristics (Typ.)



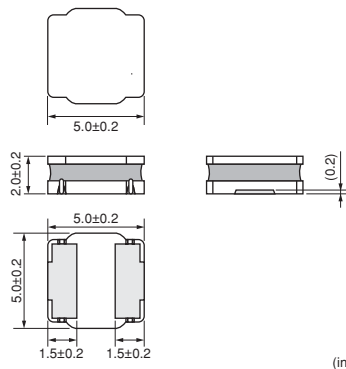
⚠Note • Please read rating and ⚠CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.  
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# LQH5BPN\_T0

Series 2020/5050 (inch/mm)

Size Code 2020 (5050) in inch (in mm), 2.2mm max. Thickness

## Appearance/Dimensions



(in mm)

## Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| L    | ø180mm Embossed Taping | 500              |
| K    | ø330mm Embossed Taping | 3000             |



Refer to pages 102 to 106 for mounting information.

## Rated Value (□: packaging code)

| Part Number    | Inductance  | Rated Current *1*3<br>(Based on Inductance Change) | Rated Current *2*3<br>(Based on Temperature Rise) | DC Resistance | Self-Resonance Frequency (min.) |     |
|----------------|-------------|----------------------------------------------------|---------------------------------------------------|---------------|---------------------------------|-----|
| LQH5BPNR47NT0□ | 0.47μH ±30% | 7.7A                                               | 4.0A                                              | 0.012Ω ±20%   | 220MHz                          | Kit |
| LQH5BPN1R0NT0□ | 1.0μH ±30%  | 5.8A                                               | 3.1A                                              | 0.019Ω ±20%   | 90MHz                           | Kit |
| LQH5BPN1R2NT0□ | 1.2μH ±30%  | 5.4A                                               | 3.1A                                              | 0.019Ω ±20%   | 90MHz                           | Kit |
| LQH5BPN1R5NT0□ | 1.5μH ±30%  | 5.0A                                               | 3.0A                                              | 0.024Ω ±20%   | 70MHz                           | Kit |
| LQH5BPN2R2NT0□ | 2.2μH ±30%  | 4.0A                                               | 2.6A                                              | 0.030Ω ±20%   | 55MHz                           | Kit |
| LQH5BPN2R7NT0□ | 2.7μH ±30%  | 3.8A                                               | 2.5A                                              | 0.035Ω ±20%   | 50MHz                           | Kit |
| LQH5BPN3R3NT0□ | 3.3μH ±30%  | 3.5A                                               | 2.3A                                              | 0.044Ω ±20%   | 40MHz                           | Kit |
| LQH5BPN4R7NT0□ | 4.7μH ±30%  | 3.0A                                               | 2.0A                                              | 0.058Ω ±20%   | 40MHz                           | Kit |
| LQH5BPN6R8NT0□ | 6.8μH ±30%  | 2.5A                                               | 1.65A                                             | 0.083Ω ±20%   | 30MHz                           | Kit |
| LQH5BPN100MT0□ | 10μH ±20%   | 2.0A                                               | 1.60A                                             | 0.106Ω ±20%   | 25MHz                           | Kit |
| LQH5BPN150MT0□ | 15μH ±20%   | 1.6A                                               | 1.20A                                             | 0.187Ω ±20%   | 18MHz                           | Kit |
| LQH5BPN220MT0□ | 22μH ±20%   | 1.4A                                               | 1.05A                                             | 0.259Ω ±20%   | 15MHz                           | Kit |

Inductance Test Frequency: 100kHz Class of Magnetic Shield: Magnetic shield of magnetic powder in resin

Operating Temperature Range (Self-temperature rise is included): -40°C~+125°C

Operating Temperature Range (Self-temperature rise is not included): -40°C~+85°C

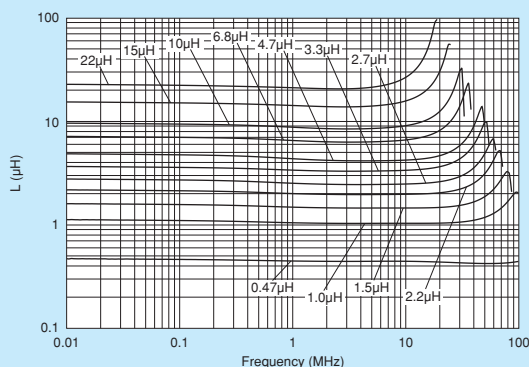
For reflow soldering only.

\*1 When applied rated current to the products, inductance will be within ±30% of initial inductance value.

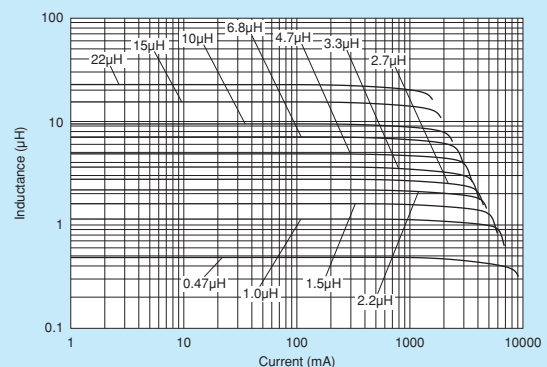
\*2 When applied rated current to the products, self-temperature rise shall be limited to 40°C max.

\*3 Keep the temperature (ambient temperature plus self-generation of heat) under 125°C.

## Inductance-Frequency Characteristics (Typ.)



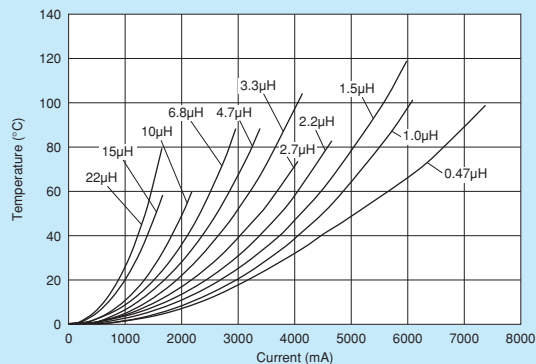
## Inductance-Current Characteristics (Typ.)



Continued on the following page.

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### ■ Temperature Rise Characteristics (Typ.)

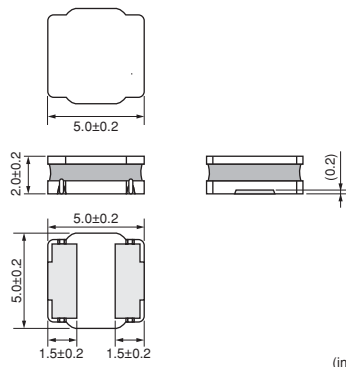


# LQH5BPB\_T0

Series 2020/5050 (inch/mm)

For Automotive Use \*Expect for the portion asked for high reliability ex. power train

## Appearance/Dimensions



(in mm)

## Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| L    | ø180mm Embossed Taping | 500              |
| K    | ø330mm Embossed Taping | 3000             |



Refer to pages 102 to 106 for mounting information.

## Rated Value (□: packaging code)

| Part Number    | Inductance  | Rated Current<br>(Based on Inductance Change) <sup>*1*3</sup> | Rated Current<br>(Based on Temperature Rise) <sup>*2*3</sup> | DC Resistance | Self-Resonance Frequency (min.) |     |
|----------------|-------------|---------------------------------------------------------------|--------------------------------------------------------------|---------------|---------------------------------|-----|
| LQH5BPBR47NT0□ | 0.47μH ±30% | 7.7A                                                          | 4A                                                           | 0.012Ω ±20%   | 220MHz                          | New |
| LQH5BPB1R0NT0□ | 1μH ±30%    | 5.8A                                                          | 3.1A                                                         | 0.019Ω ±20%   | 90MHz                           | New |
| LQH5BPB1R2NT0□ | 1.2μH ±30%  | 5.4A                                                          | 3.1A                                                         | 0.019Ω ±20%   | 90MHz                           | New |
| LQH5BPB1R5NT0□ | 1.5μH ±30%  | 5.0A                                                          | 3A                                                           | 0.024Ω ±20%   | 70MHz                           | New |
| LQH5BPB2R2NT0□ | 2.2μH ±30%  | 4.0A                                                          | 2.6A                                                         | 0.030Ω ±20%   | 55MHz                           | New |
| LQH5BPB2R7NT0□ | 2.7μH ±30%  | 3.8A                                                          | 2.5A                                                         | 0.035Ω ±20%   | 50MHz                           | New |
| LQH5BPB3R3NT0□ | 3.3μH ±30%  | 3.5A                                                          | 2.3A                                                         | 0.044Ω ±20%   | 40MHz                           | New |
| LQH5BPB4R7NT0□ | 4.7μH ±30%  | 3.0A                                                          | 2A                                                           | 0.058Ω ±20%   | 40MHz                           | New |
| LQH5BPB6R8NT0□ | 6.8μH ±30%  | 2.5A                                                          | 1.65A                                                        | 0.083Ω ±20%   | 30MHz                           | New |
| LQH5BPB100MT0□ | 10μH ±20%   | 2.0A                                                          | 1.6A                                                         | 0.106Ω ±20%   | 25MHz                           | New |
| LQH5BPB150MT0□ | 15μH ±20%   | 1.6A                                                          | 1.2A                                                         | 0.187Ω ±20%   | 18MHz                           | New |
| LQH5BPB220MT0□ | 22μH ±20%   | 1.4A                                                          | 1.05A                                                        | 0.259Ω ±20%   | 15MHz                           | New |

Inductance Test Frequency: 100kHz Class of Magnetic Shield: Magnetic shield of magnetic powder in resin

Operating Temperature Range (Self-temperature rise is included): -40°C~+125°C

Operating Temperature Range (Self-temperature rise is not included): -40°C~+105°C

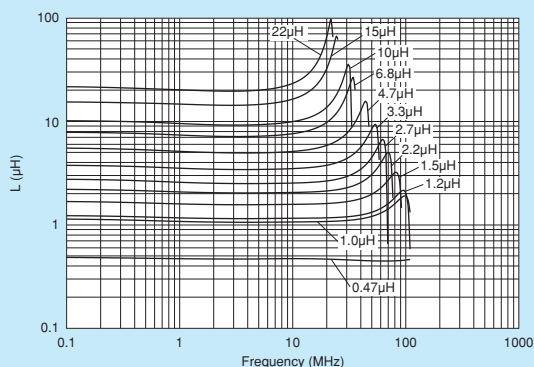
For reflow soldering only.

\*1 When applied rated current to the products, inductance will be within ±30% of initial inductance value.

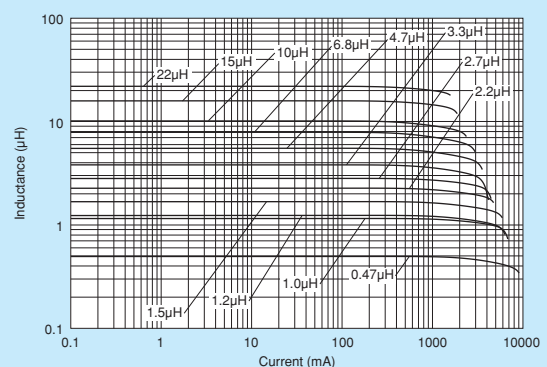
\*2 When applied rated current to the products, self-temperature rise shall be limited to 40°C max.

\*3 Keep the temperature (ambient temperature plus self-generation of heat) under 125°C.

## Inductance-Frequency Characteristics (Typ.)



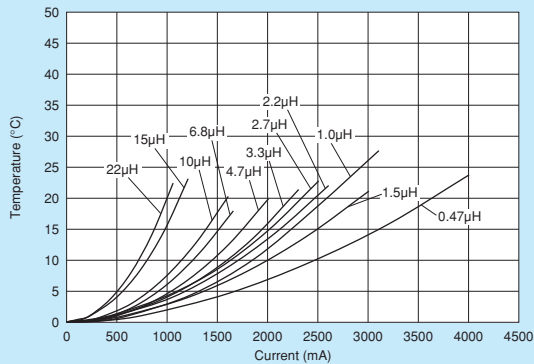
## Inductance-Current Characteristics (Typ.)



Continued on the following page.

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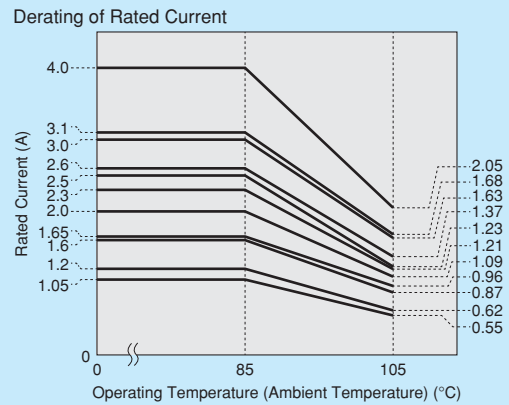
### ■ Temperature Rise Characteristics (Typ.)



### ■ Derating of Rated Current

In operating temperature exceeding +85°C, derating of current is necessary for LQH5BPB series.

Please apply the derating curve shown in chart according to the operating temperature.

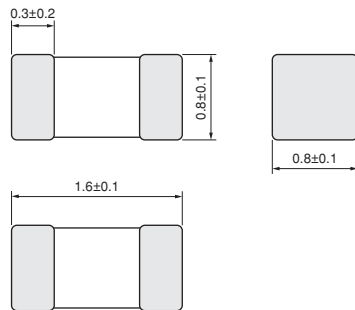


# LQM18FN\_00

Series 0603/1608 (inch/mm)

Size Code 0603 (1608) in inch (in mm)

## ■ Appearance/Dimensions



(in mm)

## ■ Packaging

| Code | Packaging           | Minimum Quantity |
|------|---------------------|------------------|
| D    | ø180mm Paper Taping | 4000             |
| J    | ø330mm Paper Taping | 10000            |
| B    | Packing in Bulk     | 1000             |



Refer to pages 102 to 106 for mounting information.

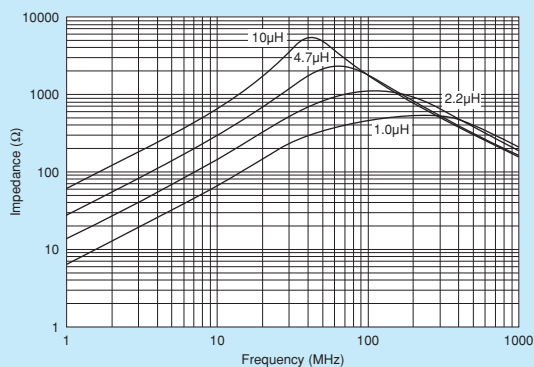
## ■ Rated Value (□: packaging code)

| Part Number    | Inductance | Inductance Test Frequency | Rated Current | DC Resistance | Self-Resonance Frequency (min.) |     |
|----------------|------------|---------------------------|---------------|---------------|---------------------------------|-----|
| LQM18FN1R0M00□ | 1.0μH ±20% | 1MHz                      | 150mA         | 0.20 Ω ±30%   | 120MHz                          | Kit |
| LQM18FN2R2M00□ | 2.2μH ±20% | 1MHz                      | 120mA         | 0.40 Ω ±30%   | 80MHz                           | Kit |
| LQM18FN4R7M00□ | 4.7μH ±20% | 1MHz                      | 80mA          | 0.60 Ω ±30%   | 50MHz                           | Kit |
| LQM18FN100M00□ | 10μH ±20%  | 1MHz                      | 50mA          | 0.90 Ω ±30%   | 30MHz                           | Kit |

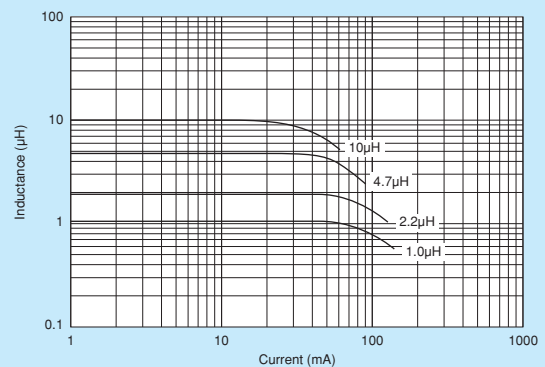
Class of Magnetic Shield: Magnetic shield of ferrite

Operating Temperature Range (Self-temperature rise is not included): -55°C~+125°C

## ■ Impedance-Frequency Characteristics (Typ.)



## ■ Inductance-Current Characteristics (Typ.)

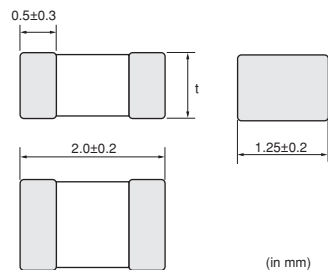


# LQM21DN\_00

Series 0805/2012 (inch/mm)

## Low DC Resistance Type

### ■ Appearance/Dimensions



|                |                         |          |
|----------------|-------------------------|----------|
| Dimension of t | Inductance: 1.0 to 10μH | 0.85±0.2 |
|                | Inductance: 22 to 47μH  | 1.25±0.2 |

### ■ Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| D    | ø180mm Paper Taping    | 4000             |
| L    | ø180mm Embossed Taping | 3000             |
| J    | ø330mm Paper Taping    | 10000            |
| K    | ø330mm Embossed Taping | 10000            |
| B    | Packing in Bulk        | 1000             |



Refer to pages 102 to 106 for mounting information.

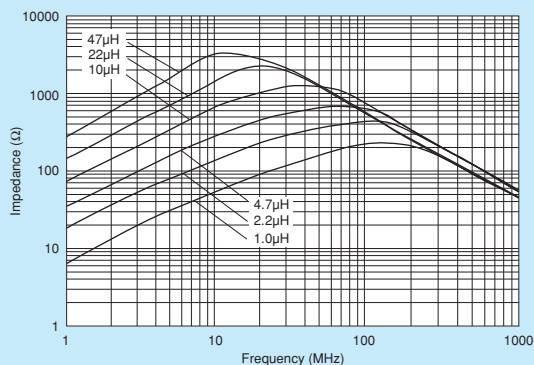
### ■ Rated Value (□: packaging code)

| Part Number    | Inductance | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Self-Resonance Frequency (min.) |
|----------------|------------|---------------------------|---------------|-----------------------|---------------------------------|
| LQM21DN1R0N00□ | 1.0μH ±30% | 1MHz                      | 60mA          | 0.10Ω                 | 75MHz                           |
| LQM21DN2R2N00□ | 2.2μH ±30% | 1MHz                      | 40mA          | 0.17Ω                 | 50MHz                           |
| LQM21DN4R7N00□ | 4.7μH ±30% | 1MHz                      | 30mA          | 0.30Ω                 | 35MHz                           |
| LQM21DN100N00□ | 10μH ±30%  | 1MHz                      | 15mA          | 0.50Ω                 | 24MHz                           |
| LQM21DN220N00□ | 22μH ±30%  | 1MHz                      | 13mA          | 0.65Ω                 | 16MHz                           |
| LQM21DN470N00□ | 47μH ±30%  | 1MHz                      | 7.0mA         | 1.20Ω                 | 7.5MHz                          |

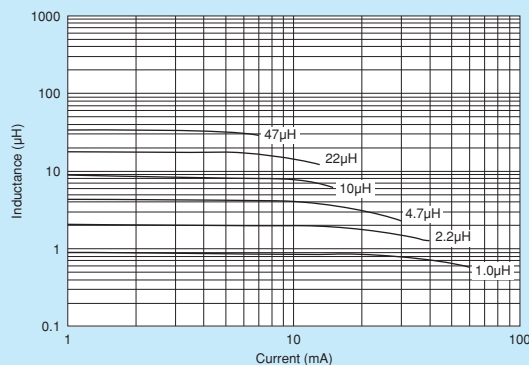
Class of Magnetic Shield: Magnetic shield of ferrite

Operating Temperature Range (Self-temperature rise is not included): -40°C~+85°C

### ■ Impedance-Frequency Characteristics (Typ.)



### ■ Inductance-Current Characteristics (Typ.)



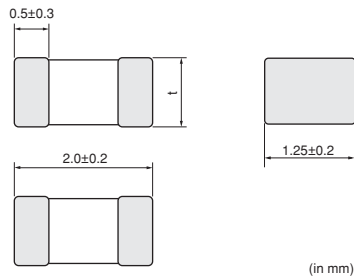
⚠Note • Please read rating and ⚠CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.  
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# LQM21FN\_00

Series 0805/2012 (inch/mm)

## Bias Current Characteristics Improved

### ■ Appearance/Dimensions



(in mm)

|                |                          |          |
|----------------|--------------------------|----------|
| Dimension of t | Inductance: 1.0 to 2.2μH | 0.85±0.2 |
|                | Inductance: 4.7 to 47μH  | 1.25±0.2 |

### ■ Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| D    | ø180mm Paper Taping    | 4000             |
| L    | ø180mm Embossed Taping | 3000             |
| J    | ø330mm Paper Taping    | 10000            |
| K    | ø330mm Embossed Taping | 10000            |
| B    | Packing in Bulk        | 1000             |



Refer to pages 102 to 106 for mounting information.

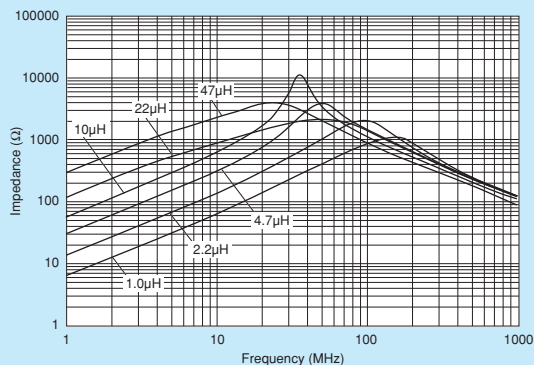
### ■ Rated Value (□: packaging code)

| Part Number    | Inductance | Inductance Test Frequency | Rated Current | DC Resistance | Self-Resonance Frequency (min.) |     |
|----------------|------------|---------------------------|---------------|---------------|---------------------------------|-----|
| LQM21FN1R0N00□ | 1.0μH ±30% | 1MHz                      | 220mA         | 0.20 Ω ±30%   | 105MHz                          | Kit |
| LQM21FN2R2N00□ | 2.2μH ±30% | 1MHz                      | 150mA         | 0.28 Ω ±30%   | 70MHz                           | Kit |
| LQM21FN4R7N00□ | 4.7μH ±30% | 1MHz                      | 80mA          | 0.30 Ω ±30%   | 25MHz                           |     |
| LQM21FN100N00□ | 10μH ±30%  | 1MHz                      | 60mA          | 0.50 Ω ±30%   | 15MHz                           |     |
| LQM21FN220N00□ | 22μH ±30%  | 1MHz                      | 13mA          | 0.35 Ω ±30%   | 15MHz                           | Kit |
| LQM21FN470N00□ | 47μH ±30%  | 1MHz                      | 7.0mA         | 0.60 Ω ±30%   | 7.5MHz                          | Kit |

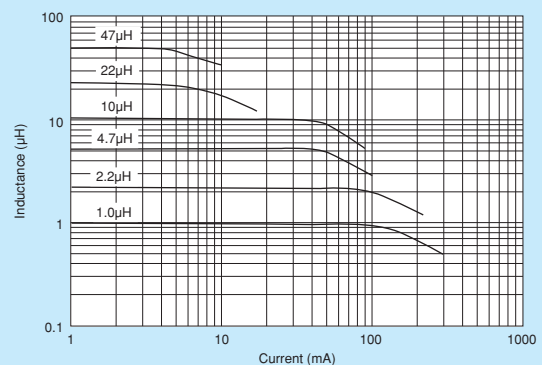
Class of Magnetic Shield: Magnetic shield of ferrite

Operating Temperature Range (Self-temperature rise is not included): -40°C~+85°C

### ■ Impedance-Frequency Characteristics (Typ.)



### ■ Inductance-Current Characteristics (Typ.)

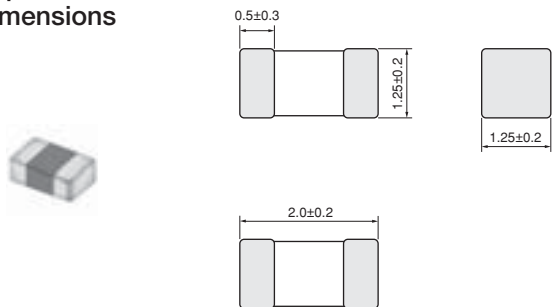


# LQM21FN\_70

Series 0805/2012 (inch/mm)

## Large Current

### Appearance/Dimensions



(in mm)

### Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| L    | ø180mm Embossed Taping | 3000             |
| B    | Packing in Bulk        | 1000             |



Refer to pages 102 to 106 for mounting information.

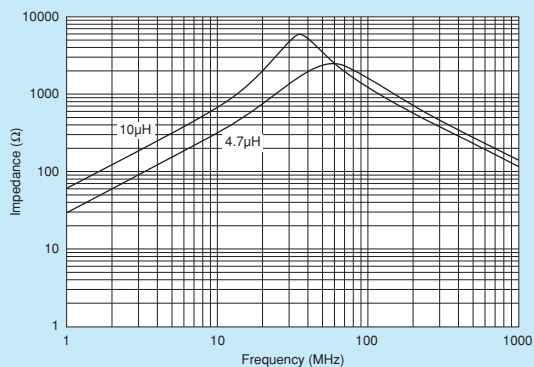
### Rated Value (□: packaging code)

| Part Number    | Inductance | Inductance Test Frequency | Rated Current | DC Resistance | Self-Resonance Frequency (min.) |     |
|----------------|------------|---------------------------|---------------|---------------|---------------------------------|-----|
| LQM21FN4R7M70□ | 4.7μH ±20% | 1MHz                      | 120mA         | 0.35 Ω ±30%   | 25MHz                           | Kit |
| LQM21FN100M70□ | 10μH ±20%  | 1MHz                      | 100mA         | 0.60 Ω ±30%   | 15MHz                           | Kit |

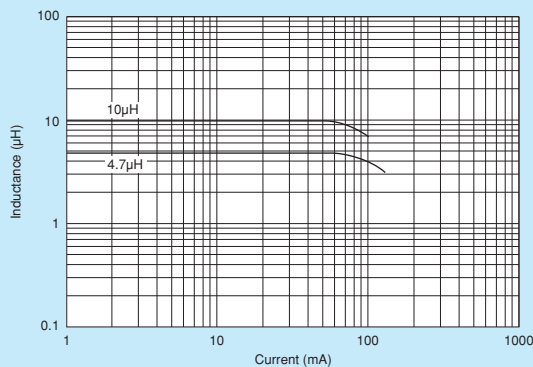
Class of Magnetic Shield: Magnetic shield of ferrite

Operating Temperature Range (Self-temperature rise is not included): -55°C~+125°C

### Impedance-Frequency Characteristics (Typ.)



### Inductance-Current Characteristics (Typ.)

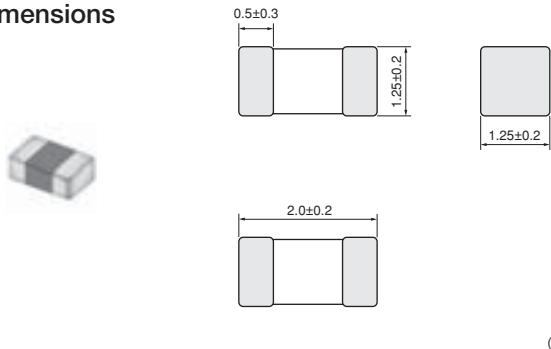


# LQM21FN\_80

Series 0805/2012 (inch/mm)

## Large Current, Low DC Resistance Type

### ■ Appearance/Dimensions



### ■ Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| L    | ø180mm Embossed Taping | 3000             |
| K    | ø330mm Embossed Taping | 10000            |
| B    | Packing in Bulk        | 1000             |



Refer to pages 102 to 106 for mounting information.

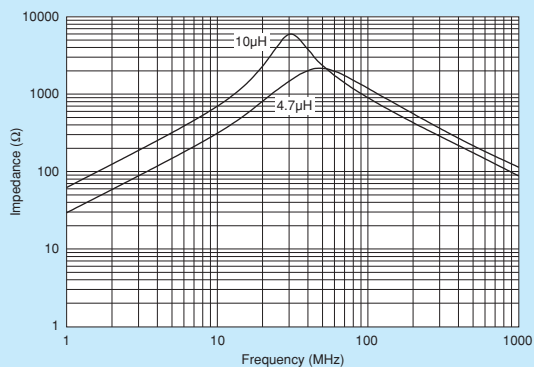
### ■ Rated Value (□: packaging code)

| Part Number    | Inductance | Inductance Test Frequency | Rated Current | DC Resistance | Self-Resonance Frequency (min.) |     |
|----------------|------------|---------------------------|---------------|---------------|---------------------------------|-----|
| LQM21FN4R7M80□ | 4.7μH ±20% | 1MHz                      | 120mA         | 0.18 Ω ±30%   | 25MHz                           | Kit |
| LQM21FN100M80□ | 10μH ±20%  | 1MHz                      | 100mA         | 0.30 Ω ±30%   | 15MHz                           | Kit |

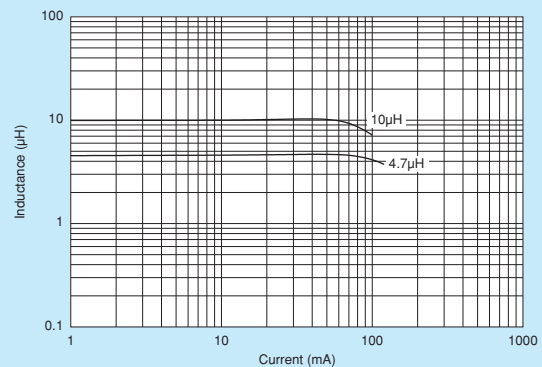
Class of Magnetic Shield: Magnetic shield of ferrite

Operating Temperature Range (Self-temperature rise is not included): -55°C~+125°C

### ■ Impedance-Frequency Characteristics (Typ.)



### ■ Inductance-Current Characteristics (Typ.)

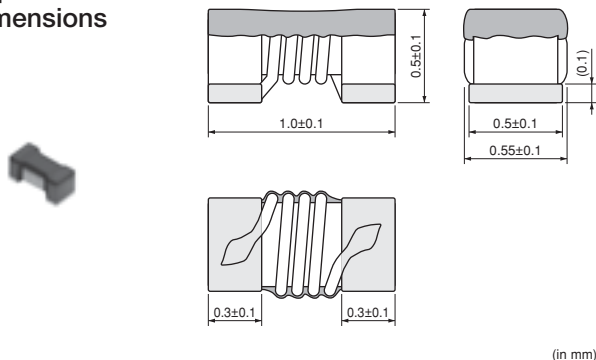


# LQW15CN\_00

Series 0402/1005 (inch/mm)

## For Voltage Conversion

### ■ Appearance/Dimensions



### ■ Packaging

| Code | Packaging           | Minimum Quantity |
|------|---------------------|------------------|
| D    | ø180mm Paper Taping | 10000            |
| B    | Packing in Bulk     | 500              |



Refer to pages 102 to 106 for mounting information.

### ■ Rated Value (□: packaging code)

| Part Number    | Inductance | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Self-Resonance Frequency (min.) |     |
|----------------|------------|---------------------------|---------------|-----------------------|---------------------------------|-----|
| LQW15CN18NJ00□ | 18nH ±5%   | 100MHz                    | 1400mA        | 0.046Ω                | 3000MHz                         | Kit |
| LQW15CN33NJ00□ | 33nH ±5%   | 100MHz                    | 1300mA        | 0.065Ω                | 1800MHz                         | Kit |
| LQW15CN48NJ00□ | 48nH ±5%   | 100MHz                    | 1100mA        | 0.078Ω                | 1400MHz                         | Kit |
| LQW15CN70NJ00□ | 70nH ±5%   | 100MHz                    | 820mA         | 0.12Ω                 | 1300MHz                         | Kit |
| LQW15CN96NJ00□ | 96nH ±5%   | 100MHz                    | 730mA         | 0.16Ω                 | 1100MHz                         | Kit |
| LQW15CNR13J00□ | 130nH ±5%  | 100MHz                    | 640mA         | 0.23Ω                 | 1000MHz                         | Kit |
| LQW15CNR16J00□ | 160nH ±5%  | 100MHz                    | 480mA         | 0.33Ω                 | 900MHz                          | Kit |
| LQW15CNR20J00□ | 200nH ±5%  | 100MHz                    | 390mA         | 0.47Ω                 | 800MHz                          | Kit |

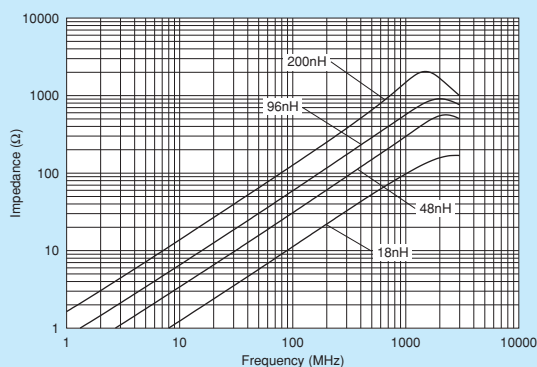
Class of Magnetic Shield: No magnetic shield

Operating Temperature Range (Self-temperature rise is included): -55°C~+135°C

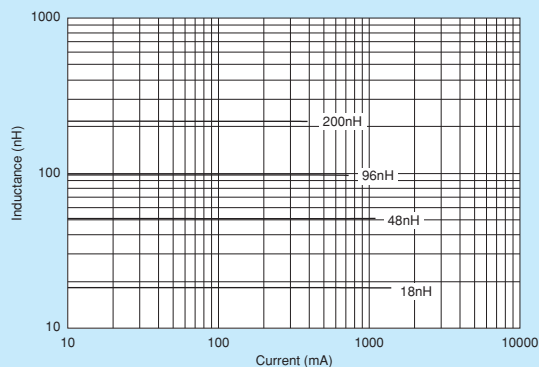
Operating Temperature Range (Self-temperature rise is not included): -55°C~+125°C

For reflow soldering only.

### ■ Impedance-Frequency Characteristics (Typ.)



### ■ Inductance-Current Characteristics (Typ.)

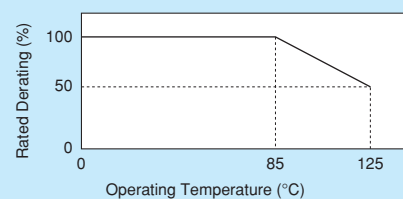


### ■ Derating of Rated Current

In operating temperature exceeding +85°C, derating of current is necessary for LQW15C series.

Please apply the derating curve shown in chart according to the operating temperature.

### Derating of Rated Current



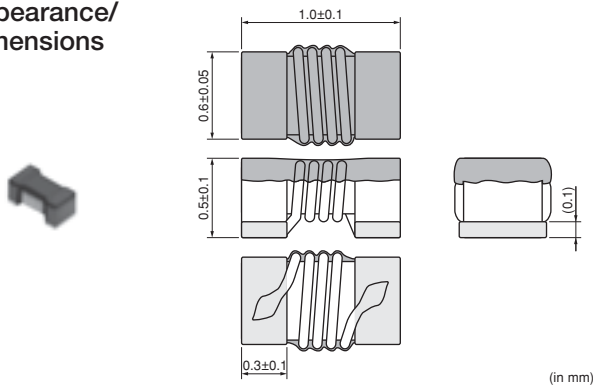
△Note • Please read rating and △CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.  
• This catalog has only typical specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

# LQW15CN\_10

Series 0402/1005 (inch/mm)

For RF Choke, Voltage Conversion

## Appearance/Dimensions



## Packaging

| Code | Packaging           | Minimum Quantity |
|------|---------------------|------------------|
| D    | ø180mm Paper Taping | 10000            |
| B    | Packing in Bulk     | 500              |



Refer to pages 102 to 106 for mounting information.

## Rated Value (□: packaging code)

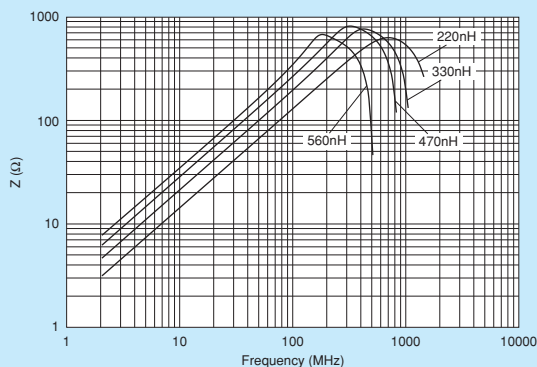
| Part Number    | Inductance | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Self-Resonance Frequency (min.) |     |
|----------------|------------|---------------------------|---------------|-----------------------|---------------------------------|-----|
| LQW15CNR22J10□ | 220nH ±5%  | 100MHz                    | 450mA         | 0.47Ω                 | 1400MHz                         | New |
| LQW15CNR22K10□ | 220nH ±10% | 100MHz                    | 450mA         | 0.47Ω                 | 1400MHz                         | New |
| LQW15CNR27J10□ | 270nH ±5%  | 100MHz                    | 420mA         | 0.52Ω                 | 830MHz                          | New |
| LQW15CNR27K10□ | 270nH ±10% | 100MHz                    | 420mA         | 0.52Ω                 | 830MHz                          | New |
| LQW15CNR33J10□ | 330nH ±5%  | 100MHz                    | 390mA         | 0.56Ω                 | 520MHz                          | New |
| LQW15CNR33K10□ | 330nH ±10% | 100MHz                    | 390mA         | 0.56Ω                 | 520MHz                          | New |
| LQW15CNR39J10□ | 390nH ±5%  | 100MHz                    | 370mA         | 0.62Ω                 | 450MHz                          | New |
| LQW15CNR39K10□ | 390nH ±10% | 100MHz                    | 370mA         | 0.62Ω                 | 450MHz                          | Kit |
| LQW15CNR42J10□ | 420nH ±5%  | 10MHz                     | 370mA         | 0.62Ω                 | 400MHz                          | New |
| LQW15CNR42K10□ | 420nH ±10% | 10MHz                     | 370mA         | 0.62Ω                 | 400MHz                          | New |
| LQW15CNR47J10□ | 470nH ±5%  | 10MHz                     | 350mA         | 0.66Ω                 | 380MHz                          | New |
| LQW15CNR47K10□ | 470nH ±10% | 10MHz                     | 350mA         | 0.66Ω                 | 380MHz                          | New |
| LQW15CNR56J10□ | 560nH ±5%  | 10MHz                     | 300mA         | 0.71Ω                 | 300MHz                          | New |
| LQW15CNR56K10□ | 560nH ±10% | 10MHz                     | 300mA         | 0.71Ω                 | 300MHz                          | Kit |

Class of Magnetic Shield: No magnetic shield

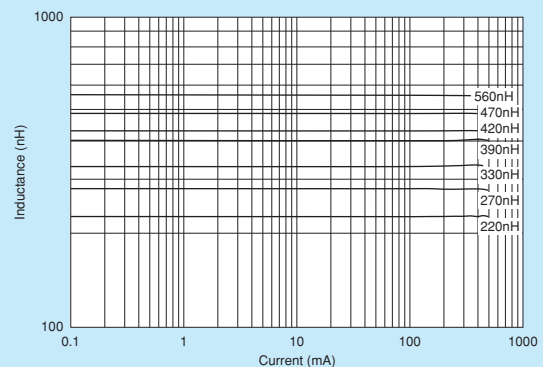
Operating Temperature Range (Self-temperature rise is not included): -55°C~+125°C

For reflow soldering only.

## Impedance-Frequency Characteristics (Typ.)



## Inductance-Current Characteristics (Typ.)



Continued on the following page.

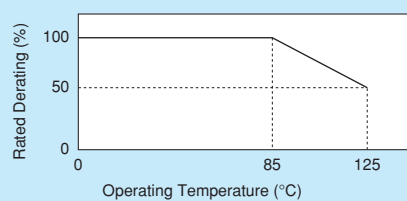
**Note** • Please read rating and **CAUTION** (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.  
• This catalog has only typical specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

### ■ Derating of Rated Current

In operating temperature exceeding +85°C, derating of current is necessary for LQW15C series.

Please apply the derating curve shown in chart according to the operating temperature.

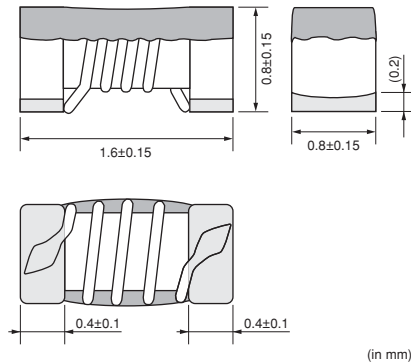
Derating of Rated Current



# LQW18CN\_00

Series 0603/1608 (inch/mm)

## for FM/TV Band Choke

■ Appearance/  
Dimensions

(in mm)

## ■ Packaging

| Code | Packaging           | Minimum Quantity |
|------|---------------------|------------------|
| D    | ø180mm Paper Taping | 4000             |
| B    | Packing in Bulk     | 500              |



Refer to pages 102 to 106 for mounting information.

## ■ Rated Value (□: packaging code)

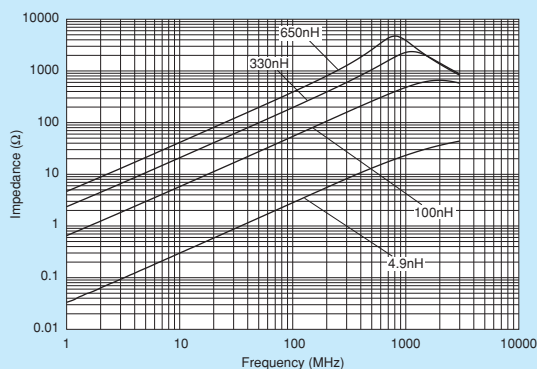
| Part Number    | Inductance   | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Self-Resonance Frequency (min.) |     |
|----------------|--------------|---------------------------|---------------|-----------------------|---------------------------------|-----|
| LQW18CN4N9D00□ | 4.9nH ±0.5nH | 10MHz                     | 2600mA        | 0.015Ω                | 2300MHz                         | Kit |
| LQW18CN15NJ00□ | 15nH ±5%     | 10MHz                     | 2200mA        | 0.025Ω                | 2000MHz                         | Kit |
| LQW18CN33NJ00□ | 33nH ±5%     | 10MHz                     | 1700mA        | 0.035Ω                | 1800MHz                         | Kit |
| LQW18CN55NJ00□ | 55nH ±5%     | 10MHz                     | 1500mA        | 0.045Ω                | 1600MHz                         | Kit |
| LQW18CN85NJ00□ | 85nH ±5%     | 10MHz                     | 1400mA        | 0.060Ω                | 1380MHz                         | Kit |
| LQW18CNR10K00□ | 100nH ±10%   | 10MHz                     | 1000mA        | 0.10Ω                 | 1260MHz                         | Kit |
| LQW18CNR12J00□ | 120nH ±5%    | 10MHz                     | 1100mA        | 0.085Ω                | 1200MHz                         | Kit |
| LQW18CNR16J00□ | 160nH ±5%    | 10MHz                     | 1000mA        | 0.10Ω                 | 900MHz                          | Kit |
| LQW18CNR21J00□ | 210nH ±5%    | 10MHz                     | 800mA         | 0.15Ω                 | 720MHz                          | Kit |
| LQW18CNR27J00□ | 270nH ±5%    | 10MHz                     | 750mA         | 0.16Ω                 | 660MHz                          | Kit |
| LQW18CNR33J00□ | 330nH ±5%    | 10MHz                     | 630mA         | 0.25Ω                 | 600MHz                          | Kit |
| LQW18CNR39J00□ | 390nH ±5%    | 10MHz                     | 620mA         | 0.28Ω                 | 570MHz                          | Kit |
| LQW18CNR47J00□ | 470nH ±5%    | 10MHz                     | 500mA         | 0.45Ω                 | 555MHz                          | Kit |
| LQW18CNR56J00□ | 560nH ±5%    | 10MHz                     | 450mA         | 0.48Ω                 | 540MHz                          | Kit |
| LQW18CNR65J00□ | 650nH ±5%    | 10MHz                     | 430mA         | 0.52Ω                 | 510MHz                          | Kit |

Class of Magnetic Shield: No magnetic shield

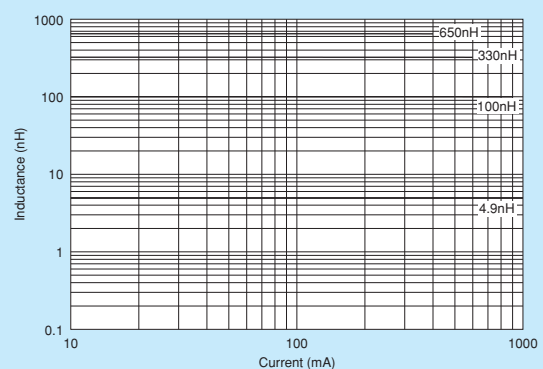
Operating Temperature Range (Self-temperature rise is not included): -40°C~+85°C

For reflow soldering only.

## ■ Impedance-Frequency Characteristics (Typ.)



## ■ Inductance-Current Characteristics (Typ.)

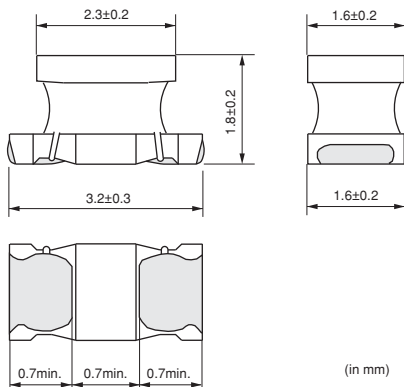


# LQH31CN\_03

Series 1206/3216 (inch/mm)

Size Code 1206 (3216) in inch (in mm)

## Appearance/Dimensions



## Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| L    | ø180mm Embossed Taping | 2000             |
| K    | ø330mm Embossed Taping | 7500             |



Refer to pages 102 to 106 for mounting information.

## Rated Value (□: packaging code)

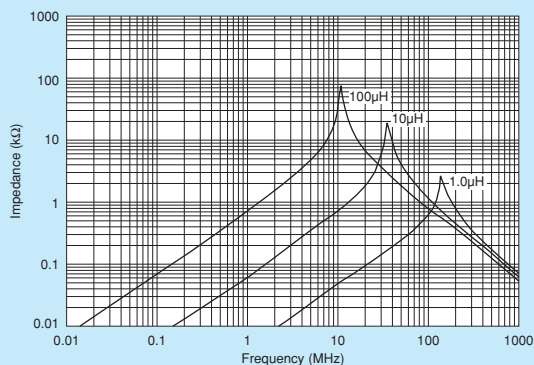
| Part Number    | Inductance  | Inductance Test Frequency | Rated Current <sup>*1</sup> | DC Resistance | Self-Resonance Frequency (min.) |
|----------------|-------------|---------------------------|-----------------------------|---------------|---------------------------------|
| LQH31CNR12M03□ | 0.12μH ±20% | 1MHz                      | 970mA                       | 0.08Ω ±40%    | 250MHz                          |
| LQH31CNR22M03□ | 0.22μH ±20% | 1MHz                      | 850mA                       | 0.1Ω ±40%     | 250MHz                          |
| LQH31CNR47M03□ | 0.47μH ±20% | 1MHz                      | 700mA                       | 0.15Ω ±40%    | 180MHz                          |
| LQH31CN1R0M03□ | 1.0μH ±20%  | 1MHz                      | 510mA                       | 0.28Ω ±30%    | 100MHz                          |
| LQH31CN2R2M03□ | 2.2μH ±20%  | 1MHz                      | 430mA                       | 0.41Ω ±30%    | 50MHz                           |
| LQH31CN4R7M03□ | 4.7μH ±20%  | 1MHz                      | 340mA                       | 0.65Ω ±30%    | 31MHz                           |
| LQH31CN100K03□ | 10μH ±10%   | 1MHz                      | 230mA                       | 1.3Ω ±30%     | 20MHz                           |
| LQH31CN220K03□ | 22μH ±10%   | 1MHz                      | 160mA                       | 3.0Ω ±30%     | 14MHz                           |
| LQH31CN470K03□ | 47μH ±10%   | 1MHz                      | 100mA                       | 8.0Ω ±30%     | 10MHz                           |
| LQH31CN101K03□ | 100μH ±10%  | 1MHz                      | 80mA                        | 12.0Ω ±30%    | 7MHz                            |

Class of Magnetic Shield: No magnetic shield

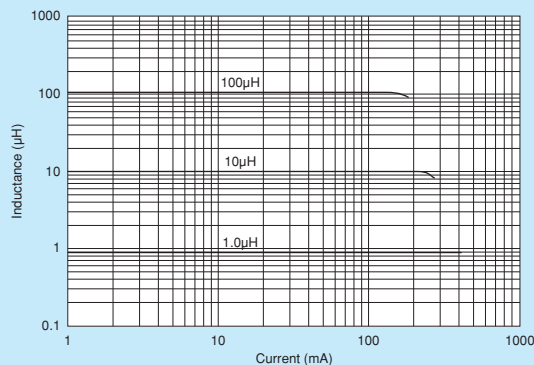
Operating Temperature Range (Self-temperature rise is not included): -40°C~+85°C

\*1 When applied rated current to the products, self-temperature rise shall be limited to 35°C max. and inductance will be within ±10% of initial inductance value.

## Impedance-Frequency Characteristics (Typ.)



## Inductance-Current Characteristics (Typ.)

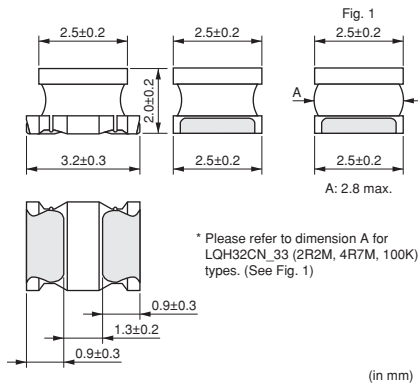


⚠Note • Please read rating and ⚠CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.  
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# LQH32CN\_23/LQH32CN\_33 Series 1210/3225 (inch/mm)

## Size Code 1210 (3225) in inch (in mm)

### ■ Appearance/ Dimensions



(in mm)

## ■ Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| L    | ø180mm Embossed Taping | 2000             |
| K    | ø330mm Embossed Taping | 7500             |



Refer to pages 102 to 106 for mounting information.

■ Rated Value (□: packaging code)

| Part Number    | Inductance  | Inductance Test Frequency | Rated Current <sup>*1</sup> | DC Resistance | Self-Resonance Frequency (min.) |     |
|----------------|-------------|---------------------------|-----------------------------|---------------|---------------------------------|-----|
| LQH32CN1R0M23□ | 1.0μH ±20%  | 1MHz                      | 800mA                       | 0.09Ω ±30%    | 96MHz                           | Kit |
| LQH32CN2R2M23□ | 2.2μH ±20%  | 1MHz                      | 600mA                       | 0.13Ω ±30%    | 64MHz                           | Kit |
| LQH32CN4R7M23□ | 4.7μH ±20%  | 1MHz                      | 450mA                       | 0.2Ω ±30%     | 43MHz                           | Kit |
| LQH32CN100K23□ | 10μH ±10%   | 1MHz                      | 300mA                       | 0.44Ω ±30%    | 26MHz                           | Kit |
| LQH32CN220K23□ | 22μH ±10%   | 1MHz                      | 250mA                       | 0.71Ω ±30%    | 19MHz                           | Kit |
| LQH32CN470K23□ | 47μH ±10%   | 1MHz                      | 170mA                       | 1.3Ω ±30%     | 15MHz                           | Kit |
| LQH32CN101K23□ | 100μH ±10%  | 1MHz                      | 100mA                       | 3.5Ω ±30%     | 10MHz                           | Kit |
| LQH32CN221K23□ | 220μH ±10%  | 1MHz                      | 70mA                        | 8.4Ω ±30%     | 6.8MHz                          | Kit |
| LQH32CN331K23□ | 330μH ±10%  | 1MHz                      | 60mA                        | 10.0Ω ±30%    | 5.6MHz                          | Kit |
| LQH32CN391K23□ | 390μH ±10%  | 1MHz                      | 60mA                        | 17Ω ±30%      | 5MHz                            | Kit |
| LQH32CN471K23□ | 470μH ±10%  | 1kHz                      | 60mA                        | 19Ω ±30%      | 5MHz                            | Kit |
| LQH32CN561K23□ | 560μH ±10%  | 1kHz                      | 60mA                        | 22.0Ω ±30%    | 5MHz                            | Kit |
| LQH32CNR15M33□ | 0.15μH ±20% | 1MHz                      | 1450mA                      | 0.028Ω ±30%   | 400MHz                          | Kit |
| LQH32CNR27M33□ | 0.27μH ±20% | 1MHz                      | 1250mA                      | 0.034Ω ±30%   | 250MHz                          | Kit |
| LQH32CNR47M33□ | 0.47μH ±20% | 1MHz                      | 1100mA                      | 0.042Ω ±30%   | 150MHz                          | Kit |
| LQH32CN1R0M33□ | 1.0μH ±20%  | 1MHz                      | 1000mA                      | 0.06Ω ±30%    | 100MHz                          | Kit |
| LQH32CN2R2M33□ | 2.2μH ±20%  | 1MHz                      | 790mA                       | 0.097Ω ±30%   | 64MHz                           | Kit |
| LQH32CN4R7M33□ | 4.7μH ±20%  | 1MHz                      | 650mA                       | 0.15Ω ±30%    | 43MHz                           | Kit |
| LQH32CN100K33□ | 10μH ±10%   | 1MHz                      | 450mA                       | 0.3Ω ±30%     | 26MHz                           | Kit |

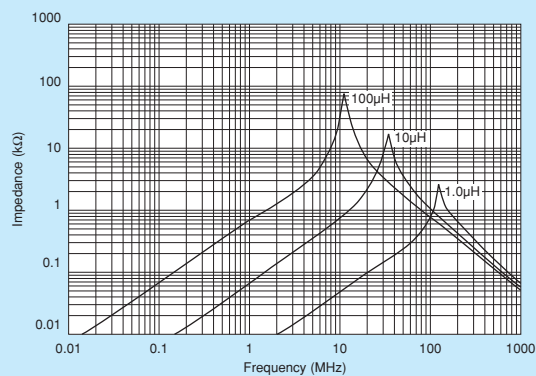
Class of Magnetic Shield: No magnetic shield

Operating Temperature Range (Self-temperature rise is not included): -40°C~+85°C

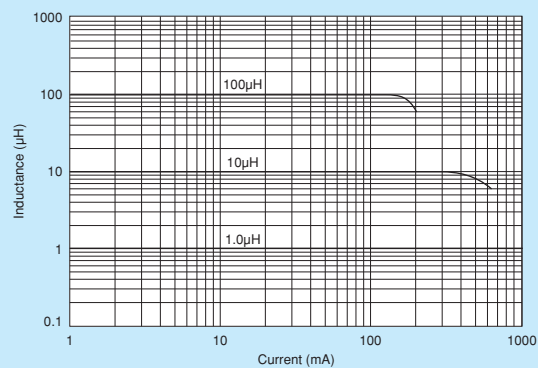
\*1 When applied rated current to the products, self-temperature rise shall be limited to 20°C max. and inductance will be within  $\pm 10\%$  of initial inductance value.

Continued on the following page. 

## ■ Impedance-Frequency Characteristics (Typ.)



## ■ Inductance-Current Characteristics (Typ.)

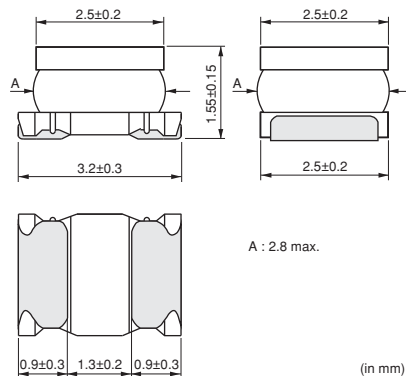


# LQH32CN\_53

Series 1210/3225 (inch/mm)

Size Code 1210 (3225) in inch (in mm)

## ■ Appearance/Dimensions



## ■ Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| L    | ø180mm Embossed Taping | 2000             |
| K    | ø330mm Embossed Taping | 7500             |



Refer to pages 102 to 106 for mounting information.

## ■ Rated Value (□: packaging code)

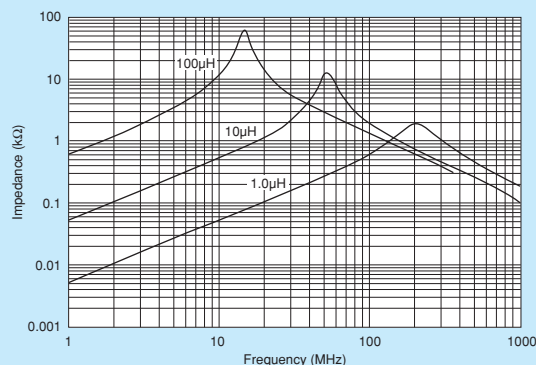
| Part Number    | Inductance | Inductance Test Frequency | Rated Current <sup>*1</sup> | DC Resistance | Self-Resonance Frequency (min.) |     |
|----------------|------------|---------------------------|-----------------------------|---------------|---------------------------------|-----|
| LQH32CN1R0M53□ | 1.0μH ±20% | 1MHz                      | 1000mA                      | 0.060 Ω ±30%  | 100MHz                          | Kit |
| LQH32CN2R2M53□ | 2.2μH ±20% | 1MHz                      | 790mA                       | 0.097 Ω ±30%  | 64MHz                           | Kit |
| LQH32CN3R3M53□ | 3.3μH ±20% | 1MHz                      | 710mA                       | 0.12 Ω ±30%   | 50MHz                           |     |
| LQH32CN4R7M53□ | 4.7μH ±20% | 1MHz                      | 650mA                       | 0.15 Ω ±30%   | 43MHz                           | Kit |
| LQH32CN6R8M53□ | 6.8μH ±20% | 1MHz                      | 540mA                       | 0.25 Ω ±30%   | 32MHz                           |     |
| LQH32CN100K53□ | 10μH ±10%  | 1MHz                      | 450mA                       | 0.30 Ω ±30%   | 26MHz                           | Kit |
| LQH32CN150K53□ | 15μH ±10%  | 1MHz                      | 300mA                       | 0.58 Ω ±30%   | 26MHz                           | Kit |
| LQH32CN220K53□ | 22μH ±10%  | 1MHz                      | 250mA                       | 0.71 Ω ±30%   | 19MHz                           | Kit |
| LQH32CN330K53□ | 33μH ±10%  | 1MHz                      | 200mA                       | 1.1 Ω ±30%    | 17MHz                           | Kit |
| LQH32CN470K53□ | 47μH ±10%  | 1MHz                      | 170mA                       | 1.3 Ω ±30%    | 15MHz                           | Kit |
| LQH32CN680K53□ | 68μH ±10%  | 1MHz                      | 130mA                       | 2.2 Ω ±30%    | 12MHz                           | Kit |
| LQH32CN101K53□ | 100μH ±10% | 1MHz                      | 100mA                       | 3.5 Ω ±30%    | 10MHz                           | Kit |

Class of Magnetic Shield: No magnetic shield

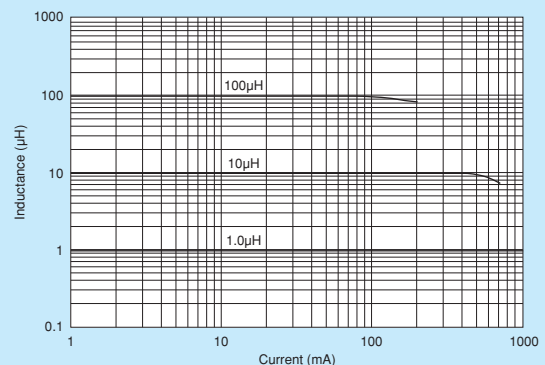
Operating Temperature Range (Self-temperature rise is not included): -40°C~+85°C

\*1 When applied rated current to the products, self-temperature rise shall be limited to 20°C max. and inductance will be within ±10% of initial inductance value.

## ■ Impedance-Frequency Characteristics (Typ.)



## ■ Inductance-Current Characteristics (Typ.)

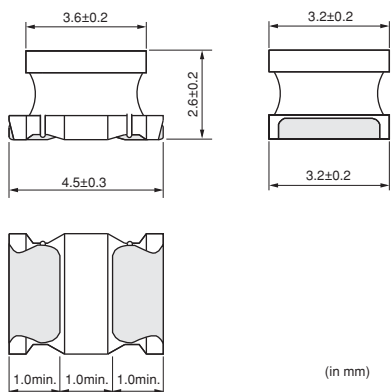


# LQH43CN\_03

Series 1812/4532 (inch/mm)

Size Code 1812 (4532) in inch (in mm)

## Appearance/Dimensions



## Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| L    | ø180mm Embossed Taping | 500              |



Refer to pages 102 to 106 for mounting information.

## Rated Value (□: packaging code)

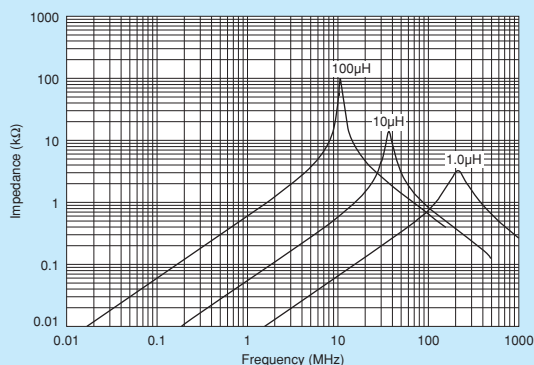
| Part Number    | Inductance | Inductance Test Frequency | Rated Current <sup>*1</sup> | Max. of DC Resistance | Self-Resonance Frequency (min.) |     |
|----------------|------------|---------------------------|-----------------------------|-----------------------|---------------------------------|-----|
| LQH43CN1R0M03□ | 1.0μH ±20% | 1MHz                      | 1080mA                      | 0.08Ω                 | 100MHz                          | Kit |
| LQH43CN1R5M03□ | 1.5μH ±20% | 1MHz                      | 1000mA                      | 0.09Ω                 | 85MHz                           | Kit |
| LQH43CN2R2M03□ | 2.2μH ±20% | 1MHz                      | 900mA                       | 0.11Ω                 | 60MHz                           | Kit |
| LQH43CN3R3M03□ | 3.3μH ±20% | 1MHz                      | 800mA                       | 0.13Ω                 | 47MHz                           | Kit |
| LQH43CN4R7M03□ | 4.7μH ±20% | 1MHz                      | 750mA                       | 0.15Ω                 | 35MHz                           | Kit |
| LQH43CN6R8M03□ | 6.8μH ±20% | 1MHz                      | 720mA                       | 0.20Ω                 | 30MHz                           | Kit |
| LQH43CN100K03□ | 10μH ±10%  | 1MHz                      | 650mA                       | 0.24Ω                 | 23MHz                           | Kit |
| LQH43CN150K03□ | 15μH ±10%  | 1MHz                      | 570mA                       | 0.32Ω                 | 20MHz                           | Kit |
| LQH43CN220K03□ | 22μH ±10%  | 1MHz                      | 420mA                       | 0.6Ω                  | 15MHz                           | Kit |
| LQH43CN330K03□ | 33μH ±10%  | 1MHz                      | 310mA                       | 1.0Ω                  | 12MHz                           | Kit |
| LQH43CN470K03□ | 47μH ±10%  | 1MHz                      | 280mA                       | 1.1Ω                  | 10MHz                           | Kit |
| LQH43CN680K03□ | 68μH ±10%  | 1MHz                      | 220mA                       | 1.7Ω                  | 8.4MHz                          | Kit |
| LQH43CN101K03□ | 100μH ±10% | 1MHz                      | 190mA                       | 2.2Ω                  | 6.8MHz                          | Kit |
| LQH43CN151K03□ | 150μH ±10% | 1MHz                      | 130mA                       | 3.5Ω                  | 5.5MHz                          | Kit |
| LQH43CN221K03□ | 220μH ±10% | 1MHz                      | 110mA                       | 4.0Ω                  | 4.5MHz                          | Kit |
| LQH43CN331K03□ | 330μH ±10% | 1MHz                      | 100mA                       | 6.8Ω                  | 3.6MHz                          | Kit |
| LQH43CN471K03□ | 470μH ±10% | 1kHz                      | 90mA                        | 8.5Ω                  | 3.0MHz                          | Kit |

Class of Magnetic Shield: No magnetic shield

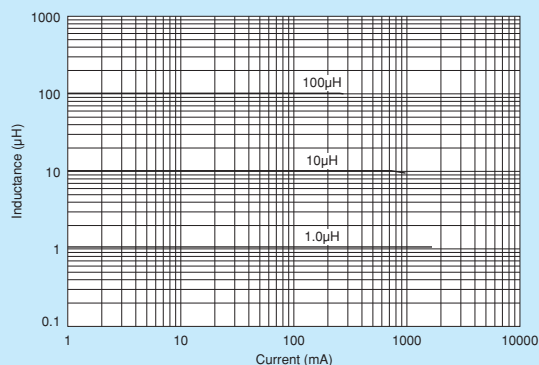
Operating Temperature Range (Self-temperature rise is not included): -40°C~+85°C

\*1 When applied rated current to the products, self-temperature rise shall be limited to 20°C max. and inductance will be within ±10% of initial inductance value.

## Impedance-Frequency Characteristics (Typ.)



## Inductance-Current Characteristics (Typ.)



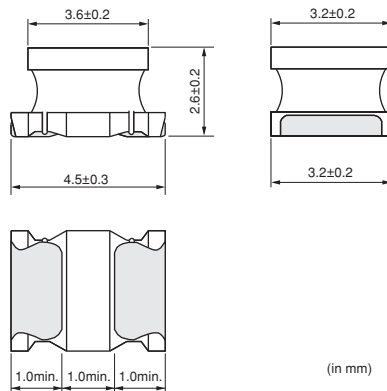
△Note • Please read rating and △CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.  
• This catalog has only typical specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

# LQH43CN\_33

Series 1812/4532 (inch/mm)

## Low DC Resistance Type

### Appearance/Dimensions



### Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| L    | ø180mm Embossed Taping | 500              |



Refer to pages 102 to 106 for mounting information.

### Rated Value (□: packaging code)

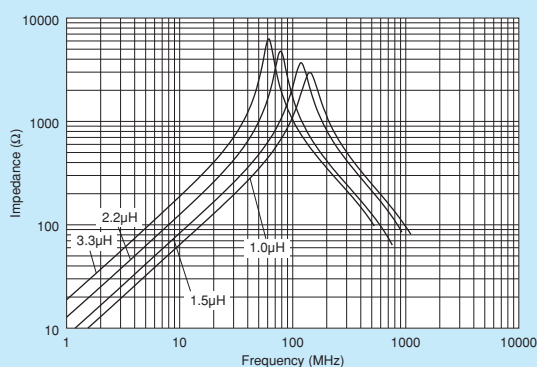
| Part Number    | Inductance  | Inductance Test Frequency | Rated Current <sup>*1</sup> | DC Resistance | Self-Resonance Frequency (min.) |     |
|----------------|-------------|---------------------------|-----------------------------|---------------|---------------------------------|-----|
| LQH43CNR56M33□ | 0.56μH ±20% | 1MHz                      | 2950mA                      | 0.023 Ω ±30%  | 160MHz                          | Kit |
| LQH43CNR82M33□ | 0.82μH ±20% | 1MHz                      | 2800mA                      | 0.027 Ω ±30%  | 130MHz                          | Kit |
| LQH43CN1R0M33□ | 1.0μH ±20%  | 1MHz                      | 2600mA                      | 0.032 Ω ±30%  | 110MHz                          | Kit |
| LQH43CN1R5M33□ | 1.5μH ±20%  | 1MHz                      | 2450mA                      | 0.036 Ω ±30%  | 80MHz                           | Kit |
| LQH43CN1R8M33□ | 1.8μH ±20%  | 1MHz                      | 2300mA                      | 0.042 Ω ±30%  | 70MHz                           | Kit |
| LQH43CN2R2M33□ | 2.2μH ±20%  | 1MHz                      | 2100mA                      | 0.047 Ω ±30%  | 60MHz                           | Kit |
| LQH43CN2R7M33□ | 2.7μH ±20%  | 1MHz                      | 1800mA                      | 0.053 Ω ±30%  | 50MHz                           | Kit |
| LQH43CN3R3M33□ | 3.3μH ±20%  | 1MHz                      | 1650mA                      | 0.076 Ω ±30%  | 47MHz                           | Kit |
| LQH43CN3R9M33□ | 3.9μH ±20%  | 1MHz                      | 1600mA                      | 0.082 Ω ±30%  | 40MHz                           | Kit |

Class of Magnetic Shield: No magnetic shield

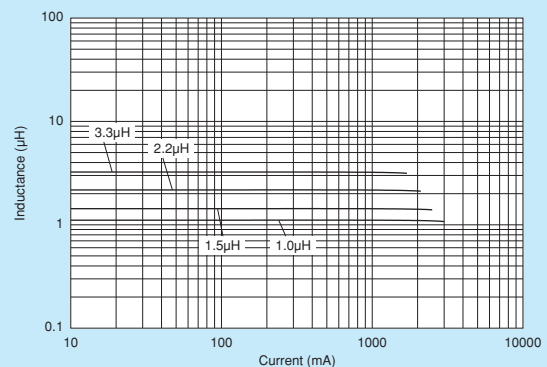
Operating Temperature Range (Self-temperature rise is not included): -40°C~+85°C

\*1 When applied rated current to the products, self-temperature rise shall be limited to 40°C max. and inductance will be within ±20% of initial inductance value.

### Impedance-Frequency Characteristics (Typ.)



### Inductance-Current Characteristics (Typ.)

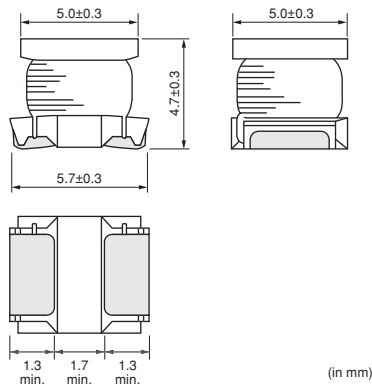


# LQH55DN\_03

Series 2220/5750 (inch/mm)

## Large Current

### Appearance/Dimensions



### Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| L    | ø180mm Embossed Taping | 350              |
| K    | ø330mm Embossed Taping | 1500             |



Refer to pages 102 to 106 for mounting information.

### Rated Value (□: packaging code)

| Part Number    | Inductance   | Inductance Test Frequency | Rated Current <sup>*1</sup> | DC Resistance | Self-Resonance Frequency (min.) |
|----------------|--------------|---------------------------|-----------------------------|---------------|---------------------------------|
| LQH55DNR12M03□ | 0.12μH ±20%  | 1MHz                      | 6000mA                      | 0.007Ω ±40%   | 450MHz                          |
| LQH55DNR27M03□ | 0.27μH ±20%  | 1MHz                      | 5300mA                      | 0.010Ω ±40%   | 300MHz                          |
| LQH55DNR47M03□ | 0.47μH ±20%  | 1MHz                      | 4800mA                      | 0.013Ω ±40%   | 200MHz                          |
| LQH55DN1R0M03□ | 1.0μH ±20%   | 1MHz                      | 4000mA                      | 0.019Ω ±40%   | 150MHz                          |
| LQH55DN1R5M03□ | 1.5μH ±20%   | 1MHz                      | 3700mA                      | 0.022Ω ±40%   | 110MHz                          |
| LQH55DN2R2M03□ | 2.2μH ±20%   | 1MHz                      | 3200mA                      | 0.029Ω ±40%   | 80MHz                           |
| LQH55DN3R3M03□ | 3.3μH ±20%   | 1MHz                      | 2900mA                      | 0.036Ω ±40%   | 40MHz                           |
| LQH55DN4R7M03□ | 4.7μH ±20%   | 1MHz                      | 2700mA                      | 0.041Ω ±40%   | 30MHz                           |
| LQH55DN6R8M03□ | 6.8μH ±20%   | 1MHz                      | 2000mA                      | 0.074Ω ±40%   | 25MHz                           |
| LQH55DN100M03□ | 10μH ±20%    | 1MHz                      | 1700mA                      | 0.093Ω ±40%   | 20MHz                           |
| LQH55DN150M03□ | 15μH ±20%    | 1MHz                      | 1400mA                      | 0.15Ω ±40%    | 17MHz                           |
| LQH55DN220M03□ | 22μH ±20%    | 1MHz                      | 1200mA                      | 0.19Ω ±40%    | 15MHz                           |
| LQH55DN330M03□ | 33μH ±20%    | 1MHz                      | 900mA                       | 0.32Ω ±40%    | 12MHz                           |
| LQH55DN470M03□ | 47μH ±20%    | 1MHz                      | 800mA                       | 0.40Ω ±40%    | 10MHz                           |
| LQH55DN680M03□ | 68μH ±20%    | 1MHz                      | 640mA                       | 0.67Ω ±40%    | 7.6MHz                          |
| LQH55DN101M03□ | 100μH ±20%   | 100kHz                    | 560mA                       | 0.86Ω ±40%    | 6.5MHz                          |
| LQH55DN151M03□ | 150μH ±20%   | 100kHz                    | 420mA                       | 1.9Ω ±40%     | 5.0MHz                          |
| LQH55DN221M03□ | 220μH ±20%   | 100kHz                    | 320mA                       | 2.4Ω ±40%     | 4.0MHz                          |
| LQH55DN331M03□ | 330μH ±20%   | 100kHz                    | 270mA                       | 4.4Ω ±40%     | 3.1MHz                          |
| LQH55DN471M03□ | 470μH ±20%   | 100kHz                    | 240mA                       | 5.4Ω ±40%     | 2.4MHz                          |
| LQH55DN681M03□ | 680μH ±20%   | 100kHz                    | 190mA                       | 8.1Ω ±40%     | 1.9MHz                          |
| LQH55DN102M03□ | 1000μH ±20%  | 10kHz                     | 150mA                       | 10.3Ω ±40%    | 1.7MHz                          |
| LQH55DN222M03□ | 2200μH ±20%  | 10kHz                     | 100mA                       | 21.5Ω ±40%    | 1.2MHz                          |
| LQH55DN472M03□ | 4700μH ±20%  | 10kHz                     | 70mA                        | 43.6Ω ±40%    | 0.8MHz                          |
| LQH55DN103M03□ | 10000μH ±20% | 10kHz                     | 50mA                        | 100Ω ±40%     | 0.5MHz                          |

Class of Magnetic Shield: No magnetic shield

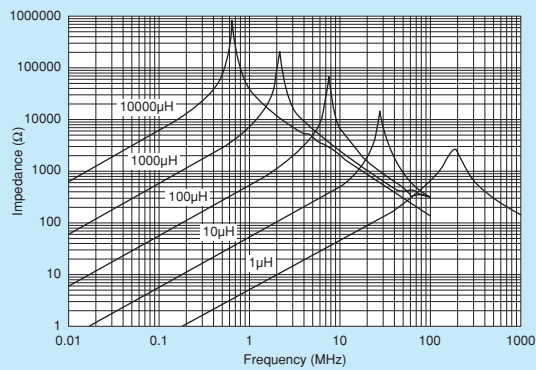
Operating Temperature Range (Self-temperature rise is not included): -40°C~+80°C

For reflow soldering only.

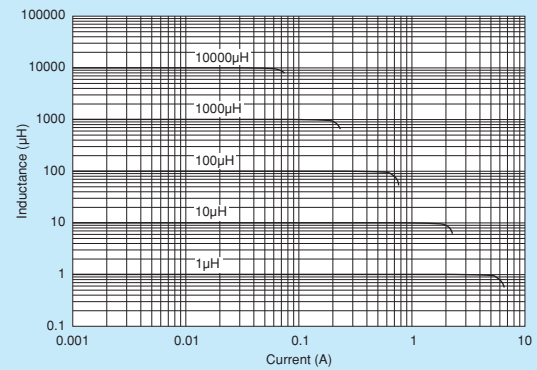
<sup>\*1</sup> When applied rated current to the products, self-temperature rise shall be limited to 40°C max. and inductance will be within ±40% of initial inductance value.

Continued on the following page.

### ■ Impedance-Frequency Characteristics (Typ.)



### ■ Inductance-Current Characteristics (Typ.)

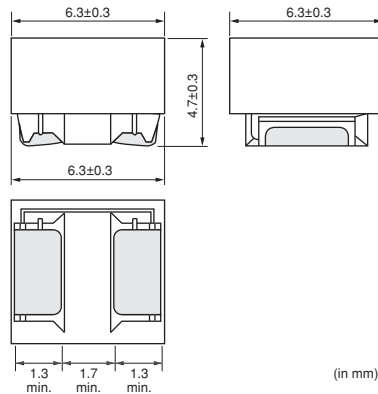


# LQH66SN\_03

Series 2525/6363 (inch/mm)

## Closed Magnetic Circuit

### ■ Appearance/Dimensions



### ■ Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| L    | ø180mm Embossed Taping | 350              |
| K    | ø330mm Embossed Taping | 1500             |



Refer to pages 102 to 106 for mounting information.

### ■ Rated Value (□: packaging code)

| Part Number    | Inductance   | Inductance Test Frequency | Rated Current <sup>*1</sup> | DC Resistance | Self-Resonance Frequency (min.) |
|----------------|--------------|---------------------------|-----------------------------|---------------|---------------------------------|
| LQH66SNR27M03□ | 0.27μH ±20%  | 1MHz                      | 6000mA                      | 0.007Ω ±40%   | 300MHz                          |
| LQH66SNR68M03□ | 0.68μH ±20%  | 1MHz                      | 5300mA                      | 0.010Ω ±40%   | 180MHz                          |
| LQH66SN1R0M03□ | 1.0μH ±20%   | 1MHz                      | 4700mA                      | 0.013Ω ±40%   | 150MHz                          |
| LQH66SN1R5M03□ | 1.5μH ±20%   | 1MHz                      | 3800mA                      | 0.016Ω ±40%   | 110MHz                          |
| LQH66SN2R2M03□ | 2.2μH ±20%   | 1MHz                      | 3300mA                      | 0.019Ω ±40%   | 80MHz                           |
| LQH66SN3R3M03□ | 3.3μH ±20%   | 1MHz                      | 2600mA                      | 0.022Ω ±40%   | 40MHz                           |
| LQH66SN4R7M03□ | 4.7μH ±20%   | 1MHz                      | 2200mA                      | 0.025Ω ±40%   | 30MHz                           |
| LQH66SN6R8M03□ | 6.8μH ±20%   | 1MHz                      | 1800mA                      | 0.029Ω ±40%   | 25MHz                           |
| LQH66SN100M03□ | 10μH ±20%    | 1MHz                      | 1600mA                      | 0.036Ω ±40%   | 20MHz                           |
| LQH66SN150M03□ | 15μH ±20%    | 1MHz                      | 1300mA                      | 0.069Ω ±40%   | 17MHz                           |
| LQH66SN220M03□ | 22μH ±20%    | 1MHz                      | 1100mA                      | 0.087Ω ±40%   | 15MHz                           |
| LQH66SN330M03□ | 33μH ±20%    | 1MHz                      | 860mA                       | 0.14Ω ±40%    | 12MHz                           |
| LQH66SN470M03□ | 47μH ±20%    | 1MHz                      | 760mA                       | 0.17Ω ±40%    | 10MHz                           |
| LQH66SN680M03□ | 68μH ±20%    | 1MHz                      | 600mA                       | 0.29Ω ±40%    | 7.6MHz                          |
| LQH66SN101M03□ | 100μH ±20%   | 100kHz                    | 520mA                       | 0.36Ω ±40%    | 6.5MHz                          |
| LQH66SN151M03□ | 150μH ±20%   | 100kHz                    | 420mA                       | 0.63Ω ±40%    | 5.0MHz                          |
| LQH66SN221M03□ | 220μH ±20%   | 100kHz                    | 350mA                       | 0.79Ω ±40%    | 4.0MHz                          |
| LQH66SN331M03□ | 330μH ±20%   | 100kHz                    | 280mA                       | 1.8Ω ±40%     | 3.2MHz                          |
| LQH66SN471M03□ | 470μH ±20%   | 100kHz                    | 240mA                       | 2.2Ω ±40%     | 2.5MHz                          |
| LQH66SN681M03□ | 680μH ±20%   | 100kHz                    | 200mA                       | 3.9Ω ±40%     | 2.0MHz                          |
| LQH66SN102M03□ | 1000μH ±20%  | 10kHz                     | 160mA                       | 4.9Ω ±40%     | 1.7MHz                          |
| LQH66SN222M03□ | 2200μH ±20%  | 10kHz                     | 100mA                       | 9.4Ω ±40%     | 1.2MHz                          |
| LQH66SN472M03□ | 4700μH ±20%  | 10kHz                     | 70mA                        | 19.5Ω ±40%    | 0.8MHz                          |
| LQH66SN103M03□ | 10000μH ±20% | 10kHz                     | 50mA                        | 39.7Ω ±40%    | 0.5MHz                          |

Class of Magnetic Shield: Magnetic shield of ferrite

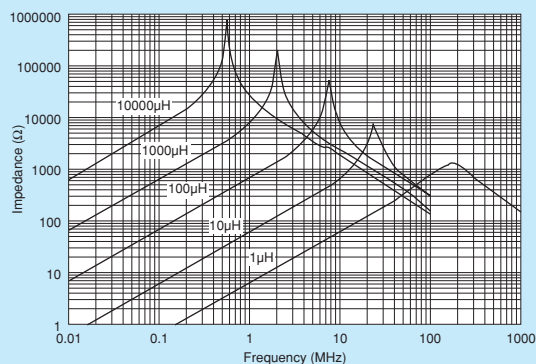
Operating Temperature Range (Self-temperature rise is not included): -40°C~+80°C

For reflow soldering only.

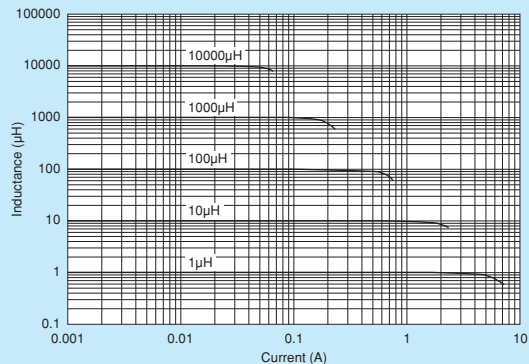
\*1 When applied rated current to the products, self-temperature rise shall be limited to 40°C max. and inductance will be within ±40% of initial inductance value.

Continued on the following page.

### ■ Impedance-Frequency Characteristics (Typ.)



### ■ Inductance-Current Characteristics (Typ.)



## ⚠ Caution

### ● Rating

#### 1. About the Rated Current

Do not use products beyond the rated current as this may create excessive heat and deteriorate the insulation resistance.

#### 2. About Excessive Surge Current

Surge current (pulse current or rush current) greater than the specified rated current applied to the product may cause a critical failure, such as an open circuit, burnout caused by excessive temperature rise. Please contact us in advance in case of applying the surge current.

## Notice

### ● Storage and Operating Condition

#### <Operating Environment>

Do not use products in chemical atmosphere such as chlorine gas, acid or sulfide gas.

#### <Storage Requirements>

##### 1. Storage Period

LQM series should be used within 6 months; the other products should be used within 12 months. Check solderability if this period is exceeded.

##### 2. Storage Conditions

(1) Store products in a warehouse in compliance with the following conditions:

Temperature: -10 to +40°C.

Humidity: 15 to 85% (relative humidity)

Do not subject products to rapid changes in temperature and humidity.

Do not store them in chemical atmosphere such as one containing sulfurous acid gas or alkaline gas.

This will prevent electrode oxidation, which causes poor solderability and possible corrosion of inductors.

(2) Do not store products in bulk packaging to prevent collision among inductors, which causes core chipping and wire breakage.

(3) Store products on pallets to protect from humidity, dust, etc.

(4) Avoid heat shock, vibration, direct sunlight, etc.

### ● Handling

This item is designed to have sufficient strength, but handle with care to avoid chipping or breaking its ceramic structure.

#### LQW\_C series

- To prevent breaking the wire, avoid touching with sharp material, such as tweezers or other material such as bristles of cleaning brush, to the wire wound portion.
- To prevent breaking the core, avoid applying excessive mechanical shock to products mounted on the board.
- In some mounting machines, when picking up components, a support pin pushes the components up from the bottom of the base tape. In this case, please remove the support pin. The support pin may damage the components and break the wire.

• In rare cases, the laser recognition cannot recognize this component. Please contact us when you use laser recognition. (There is no problem with the permeation and reflection type.)

• The product temperature rises about 40°C maximum when the permissible current is applied to LQW15C/LQW18C. Please take care for the temperature of the substrate and air around the part.

#### LQH\_C/D/H/M/N/P series

• To prevent breaking the wire, avoid touching with sharp material, such as tweezers or the bristles of a cleaning brush, to the wire wound portion of this product.

• To prevent breaking the core, avoid applying excessive mechanical shock to products mounted on the board.

• Temperature may rise up to max. 40°C when applying the rated current to Inductors for Power Lines. Be careful of the temperature rating of the circuit board and components around the chip Inductors.

#### LQM series

• There is the possibility that magnetism may change the inductance value. Do not use a magnet or tweezers with magnetism when handling chip inductors. (The tip of the tweezers should be molded with resin or pottery.)

• When the excessive current over rated current is applied, it may cause the inductance value to change due to magnetism.

#### <Handling>

1. Avoid applying excessive stress to products to prevent damage.
2. Do not touch wire wound with sharp objects such as tweezers to prevent wire breakage.
3. Do not apply excessive force to products mounted on boards to prevent core breakage.

#### <Transportation>

Do not apply excessive vibration or mechanical shock to products.

Continued on the following page. ↗

⚠ Note • Please read rating and ⚠ CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.  
• This catalog has only typical specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

## &lt;Resin Coating&gt;

When coating products with resin, the relatively high resin curing stress may change inductance values. For exterior coating, select resin carefully so that electrical and mechanical performance of the product is not affected. Prior to use, please evaluate reliability with the product mounted in your application set.

(LQW, LQH series)

An open circuit issue may occur by mechanical stress caused by the resin, amount/cured shape of resin, or operating conditions, etc. Some resins containing impurities or chloride may possibly generate chlorine by hydrolysis under some operating conditions, causing corrosion of the inductor wire and leading to an open circuit.

## &lt;Rated Current&gt;

(LQH2HP\_G0·LQH2HP\_J0 Series)

Inductance will be more than the value, which is 30% down from minimum rated Inductance value.

(Other LQH\_P Series except for LQH2HP\_G0 Series)

Inductance will be within  $\pm 30\%$  of nominal Inductance value.

## • Based on Temperature Rise

For LQH2MC series and LQH\_P series, rated current is set to keep temperature rise caused by self heating  $40^\circ\text{C}$  or less.

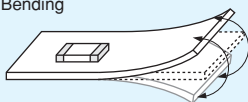
For other Inductors for Power Lines, please refer to individual specifications.

## &lt;Handling of a Substrate&gt;

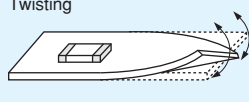
After mounting products on a substrate, do not apply any stress to the product caused by bending or twisting the substrate when cropping the substrate, inserting and removing a connector from the substrate, or tightening a screw to the substrate.

Excessive mechanical stress may cause cracking in the Product.

Bending



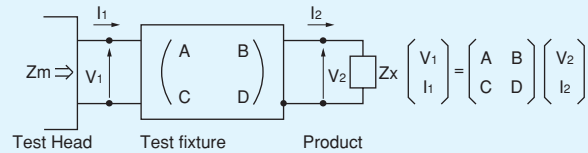
Twisting



## ● Measuring Method

Measuring Method of Inductance/Q

1. Residual elements and stray elements of test fixtures can be described by F-parameter as shown in the following:



2. The impedance of chip inductors (chip coils)  $Z_x$  and measured value  $Z_m$  can be described by input/output current/voltage.

$$Z_m = \frac{V_1}{I_1}, \quad Z_x = \frac{V_2}{I_2}$$

3. Thus, the relation between  $Z_x$  and  $Z_m$  is shown in the following:

$$Z_x = \alpha \frac{Z_m - \beta}{1 - Z_m \Gamma} \quad \text{where, } \alpha = D / A = 1, \quad \beta = B / D = Z_{sm} - (1 - Y_{om} Z_{sm}) Z_{ss}, \quad \Gamma = C / A = Y_{om}$$

$Z_{sm}$ : measured impedance of short chip  
 $Z_{ss}$ : residual impedance of short chip\*  
 $Y_{om}$ : measured admittance when opening the fixture

## \*Residual impedance of short chip

| Residual Impedance | Series |
|--------------------|--------|
| 0.556nH            | LQW15C |
| 0.771nH            | LQW18C |

4.  $L_x$  and  $Q_x$  should be calculated with the following equation.

$$L_x = \frac{\text{Im}(Z_x)}{2\pi f}, \quad Q_x = \frac{\text{Im}(Z_x)}{\text{Re}(Z_x)}$$

$L_x$ : Inductance of chip Inductors (chip coils)

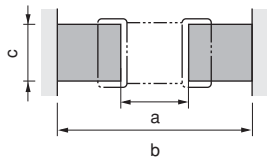
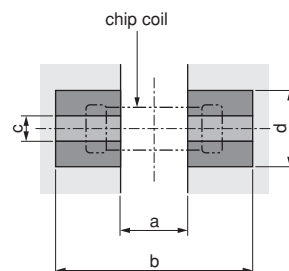
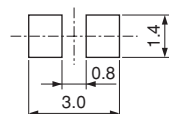
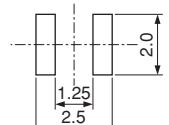
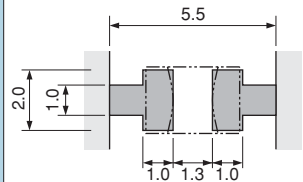
$Q_x$ : Q of chip Inductors (chip coils)

$f$ : Measuring frequency

## 1. Standard Land Pattern Dimensions

A high Q value is achieved when the PCB electrode land pattern is designed so that it does not project beyond the chip Inductors (chip coils) electrode.

Land Pattern + Solder Resist    Land Pattern    Solder Resist  
(in mm)

| Series                                                                                                                                                                                                                          | Standard Land Dimensions                                                            |                           |                                                                                     |             |                    |      |         |     |                                    |      |      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------|-------------------------------------------------------------------------------------|-------------|--------------------|------|---------|-----|------------------------------------|------|------|
| LQM18F/18P<br>LQM21D/21F/21P<br>LQM2MP<br>(Expect for LQM2MP_GH)<br>LQM2HP<br>(Except for LQM2HP_GH/JH)<br>LQM31P<br>LQM32P<br>LQH2MC<br>LQH31C<br>LQH32P<br>LQH44P<br>LQH5BP<br>LQH55D/66S<br>LQW15C_00<br>LQW15C_10<br>LQW18C |    | Part Number               |                                                                                     | a           | b                  | c    |         |     |                                    |      |      |
|                                                                                                                                                                                                                                 |                                                                                     | LQM18F/18P                | Flow<br>Reflow                                                                      | 0.7         | 2.2-2.6<br>1.8-2.0 | 0.7  |         |     |                                    |      |      |
|                                                                                                                                                                                                                                 |                                                                                     | LQM21D/21F/21P            |                                                                                     |             | 1.2                |      | 3.0-4.0 | 1.0 |                                    |      |      |
|                                                                                                                                                                                                                                 |                                                                                     | LQM2MP                    |                                                                                     | 0.8         | 2.4                | 1.8  |         |     |                                    |      |      |
|                                                                                                                                                                                                                                 |                                                                                     | LQM2HP                    |                                                                                     | 1.6         | 3.0                | 1.5  |         |     |                                    |      |      |
|                                                                                                                                                                                                                                 |                                                                                     | LQM31P                    |                                                                                     | 2.0         | 4.2-5.2            | 1.2  |         |     |                                    |      |      |
|                                                                                                                                                                                                                                 |                                                                                     | LQM32P                    |                                                                                     | 1.9         | 3.6                | 2.7  |         |     |                                    |      |      |
|                                                                                                                                                                                                                                 |                                                                                     | LQH2MC                    |                                                                                     | 0.8         | 2.6                | 1.0  |         |     |                                    |      |      |
|                                                                                                                                                                                                                                 |                                                                                     | LQH31C                    |                                                                                     | 1.0         | 4.5                | 1.5  |         |     |                                    |      |      |
|                                                                                                                                                                                                                                 |                                                                                     | LQH32P                    |                                                                                     | 1.3         | 3.8                | 2.0  |         |     |                                    |      |      |
|                                                                                                                                                                                                                                 |                                                                                     | LQH44P                    |                                                                                     | 1.3         | 4.4                | 3.0  |         |     |                                    |      |      |
|                                                                                                                                                                                                                                 |                                                                                     | LQH5BP                    |                                                                                     | 1.8         | 5.5                | 4.1  |         |     |                                    |      |      |
|                                                                                                                                                                                                                                 |                                                                                     | LQH55D/66S                |                                                                                     | 2.0         | 8.0                | 3.5  |         |     |                                    |      |      |
|                                                                                                                                                                                                                                 |                                                                                     | LQW15C_00                 |                                                                                     | 0.4         | 1.4                | 0.6  |         |     |                                    |      |      |
|                                                                                                                                                                                                                                 |                                                                                     | LQW15C_10                 |                                                                                     | 0.4         | 1.4                | 0.66 |         |     |                                    |      |      |
|                                                                                                                                                                                                                                 |                                                                                     | LQW18C                    |                                                                                     | 0.7         | 2.2                | 1.0  |         |     |                                    |      |      |
|                                                                                                                                                                                                                                 |                                                                                     | LQM2MP_GH<br>LQM2HP_GH/JH |  | Part Number | Rated Current (A)  | a    | b       | c   | Land Pad Thickness and Dimension d |      |      |
|                                                                                                                                                                                                                                 |                                                                                     |                           |                                                                                     |             |                    |      |         |     | 18μm                               | 35μm | 70μm |
|                                                                                                                                                                                                                                 |                                                                                     |                           |                                                                                     | LQM2MP_GH   | 0-1.5              | 0.8  | 2.4     | 1.8 | 1.8                                | 1.8  | 1.8  |
|                                                                                                                                                                                                                                 |                                                                                     |                           |                                                                                     |             | 1.5-2.5            |      |         |     | 2.4                                | 1.8  | 1.8  |
| 2.5-5.0                                                                                                                                                                                                                         | 5.0                                                                                 |                           |                                                                                     |             | 2.4                |      |         |     | 1.8                                |      |      |
| LQM2HP_GH                                                                                                                                                                                                                       | 0-1.5                                                                               |                           |                                                                                     | 1.6         | 3.0                | 1.5  | 1.5     | 1.5 | 1.5                                |      |      |
|                                                                                                                                                                                                                                 | 1.5-2.6                                                                             |                           |                                                                                     |             |                    |      | 2.4     | 1.5 | 1.5                                |      |      |
|                                                                                                                                                                                                                                 | 2.6-3.3                                                                             |                           |                                                                                     |             |                    |      | 3.6     | 2.4 | 1.5                                |      |      |
| LQM2HP_JH                                                                                                                                                                                                                       | 0-1.6                                                                               |                           |                                                                                     | 1.6         | 3.0                | 1.5  | 1.5     | 1.5 | 1.5                                |      |      |
|                                                                                                                                                                                                                                 | 1.6-2.4                                                                             |                           |                                                                                     |             |                    |      | 2.4     | 1.5 | 1.5                                |      |      |
|                                                                                                                                                                                                                                 | 2.4-3.5                                                                             |                           |                                                                                     |             |                    |      | 3.6     | 2.4 | 1.5                                |      |      |
| LQH2HP<br>(Except for LQH2HP_GR)                                                                                                                                                                                                |  |                           |                                                                                     |             |                    |      |         |     |                                    |      |      |
| LQH2HP_GR                                                                                                                                                                                                                       |  |                           |                                                                                     |             |                    |      |         |     |                                    |      |      |
| LQH32C                                                                                                                                                                                                                          |  |                           |                                                                                     |             |                    |      |         |     |                                    |      |      |

Attention should be paid to potential magnetic coupling effects when using the Inductors (coils) as a resonator.

Continued on the following page. 

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• This catalog has only typical specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

Land Pattern + Solder Resist    Land Pattern    Solder Resist  
(in mm)

| Series           | Standard Land Dimensions |
|------------------|--------------------------|
| LQH3NP           |                          |
| LQH43C<br>LQH43P |                          |

## 2. Standard Soldering Conditions

### (1) Soldering method

Chip Inductors (Chip coils) can be flow or reflow soldered.  
Please contact Murata regarding other soldering methods.

As for LQH2MC/2HP/3NP/32P/44P/5BP/55D/66S,  
LQM2MP\_GH/2HP\_GH/2HP\_JH/32P, LQW15C/18C  
series, please use reflow soldering.

Solder: Use Sn-3.0Ag-0.5Cu solder.

Flux: Use rosin-based flux, but not strongly acidic flux (with chlorine content exceeding 0.2wt%).

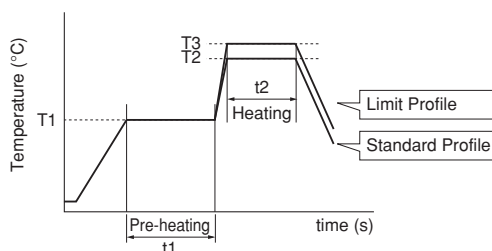
Do not use water-soluble flux.

The flux used for LQW15C/18C series should use the rosin-based flux that includes middle activator equivalent to 0.06wt% to 0.1wt% chlorine.

For additional mounting methods, please contact Murata.

### (2) Soldering profile

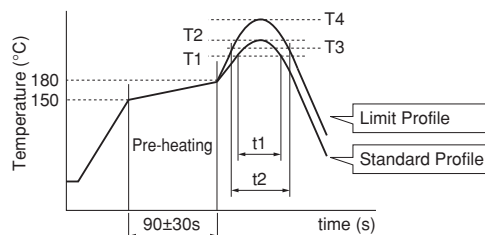
#### ● Flow Soldering profile (Sn-3.0Ag-0.5Cu solder)



| Series                                                                                | Pre-heating |            | Standard Profile |            |               | Limit Profile |            |               |
|---------------------------------------------------------------------------------------|-------------|------------|------------------|------------|---------------|---------------|------------|---------------|
|                                                                                       |             |            | Heating          |            | Cycle of flow | Heating       |            | Cycle of flow |
|                                                                                       | Temp. (T1)  | Time. (t1) | Temp. (T2)       | Time. (t2) |               | Temp. (T3)    | Time. (t2) |               |
| LQM18F/18P<br>LQM21D/21F/21P/2MP/2HP<br>(Except for LQM2HP_GH/JH)<br>LQM31P<br>LQH31C | 150°C       | 60s min.   | 250°C            | 4 to 6s    | 2 times max.  | 265±3°C       | 5s max.    | 2 times max.  |
| LQH32C<br>LQH43C/43P                                                                  | 150°C       | 60s min.   | 250°C            | 4 to 6s    | 2 times max.  | 265±3°C       | 5s max.    | 1 times       |

Continued on the following page.

- Reflow Soldering profile  
(Sn-3.0Ag-0.5Cu solder)



| Series                                                                                                                 | Standard Profile |            |                       |                 | Limit Profile |            |                       |                 |
|------------------------------------------------------------------------------------------------------------------------|------------------|------------|-----------------------|-----------------|---------------|------------|-----------------------|-----------------|
|                                                                                                                        | Heating          |            | Peak temperature (T2) | Cycle of reflow | Heating       |            | Peak temperature (T4) | Cycle of reflow |
|                                                                                                                        | Temp. (T1)       | Time. (t1) |                       |                 | Temp. (T3)    | Time. (t2) |                       |                 |
| LQM18F/18P<br>LQM21D/21F/21P/2MP/2HP<br>LQM31P/32P<br>LQH2MC, LQH2HP<br>LQH31C<br>LQH3NP/32P/43P/44P/5BP<br>LQW15C/18C | 220°C            | 30 to 60s  | 245±3°C               | 2 times max.    | 230°C         | 60s max.   | 260°C/10s             | 2 times max.    |
| LQH32C<br>LQH43C<br>LQH55D, LQH66S                                                                                     | 220°C            | 30 to 60s  | 245±3°C               | 2 times max.    | 230°C         | 60s max.   | 260°C/10s             | 1 time          |

### (3) Reworking with Soldering Iron

Preheating at 150°C for 1 minute is required. Do not directly touch the ceramic element with the tip of the soldering iron. The reworking soldering conditions are as follows:

Soldering iron power output: 80W max.

Temperature of soldering iron tip: 350°C

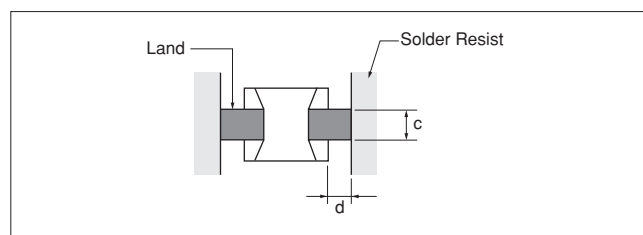
Diameter of soldering iron end: 3.0mm max.

Soldering time: within 3 s

## 3. Mounting Instructions

### (1) Land Pattern Dimensions

Large lands reduce Q of the mounted chip. Also, large protruding land areas (bordered by lines having dimensions 'c' and 'd' shown) cause floating and electrode leaching.



### (2) Land Pattern Designing (LQH series, LQW series)

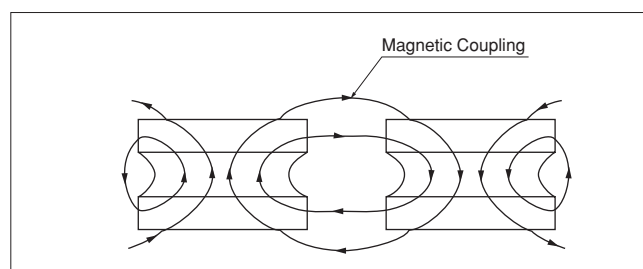
Please follow the recommended patterns.

Otherwise, their performance, which includes electrical performance or solderability, may be affected, or result in "position shift" in the soldering process.

### (3) Magnetic Coupling

Since some chip inductors (chip coils) are constructed like an open magnetic circuit, narrow spacing between inductors (coils) may cause magnetic coupling.

LQM, LQH66S, and LQH\_P series have a magnetically shielded structure. The structure makes their coupling coefficient smaller than that of conventional chip inductors (chip coils).

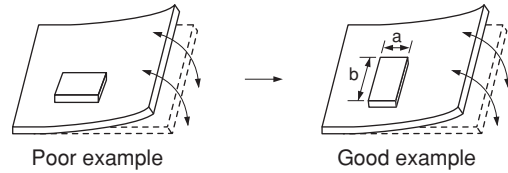


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## (4) PCB Warping

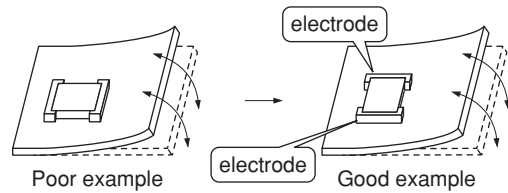
PCB should be designed so that products are not subjected to the mechanical stress caused by warping the board.

Products should be located in a sideways direction (Length:  $a < b$ ) to the mechanical stress.



except LQH3NP/44P/5BP

The electrode part of the product should be located as in the figure to avoid mechanical stress.



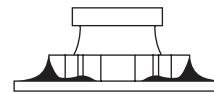
LQH3NP/44P/5BP

## (5) Amount of Solder Paste

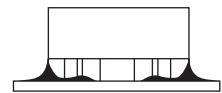
Excessive solder causes electrode corrosion, while insufficient solder causes low electrode bonding strength. Adjust the amount of solder paste as shown on the right so that solder is applied.

● Guideline of solder paste thickness

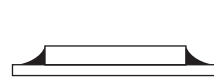
- LQW15C: 50 to 100 $\mu$ m
- LQM, LQW18C, LQH2MC/2HP, LQH3NP/32P, LQH44P/5BP/55P: 100 to 150 $\mu$ m
- LQH31C/32C, LQH43C/43P, LQH55D, LQH66S: 200 to 300 $\mu$ m



LQH\_C/D/H/N/P



LQH\_S



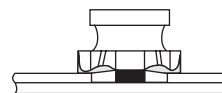
LQM



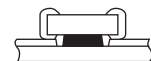
LQW\_C

## (6) Amount of Adhesive

If too much adhesive is applied, then it may overflow into the land or termination areas and yield poor solderability. In contrast, if insufficient adhesive is applied, or if the adhesive is not sufficiently hardened, then the chip may become detached during flow soldering. Apply the adhesive in accordance with the conditions shown in the chart.



LQH\_C/H/M/N



LQM

| Part Number        | Typical Application Amount (in:mg) |
|--------------------|------------------------------------|
|                    | IR-100                             |
| LQM18F/18P         | 0.06-0.07                          |
| LQM21D/21F/21P/2MP | 0.20-0.25                          |
| LQM2HP/31P         | 0.25-0.30                          |
| LQH31C             | 0.20-0.25                          |
| LQH32C             | 0.27-0.35                          |
| LQH43C             | 0.60-0.80                          |

Continued on the following page.

**4. Cleaning**

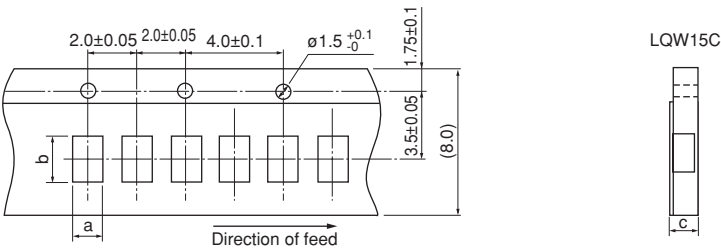
The following conditions should be observed when cleaning chip inductors (chip coils):

- (1) Cleaning Temperature: 60°C max. (40°C max. for alcohol cleaning agents)
- (2) Ultrasonic  
Output: 20W/l max.  
Duration: 5 minutes max.  
Frequency: 28 to 40kHz  
Care should be taken not to cause resonance of the PCB and mounted products.
- (3) Cleaning agent  
The following cleaning agents have been tested on individual components. Evaluation in complete assembly should be done prior to production.
  - (a) Alcohol cleaning agents  
Isopropyl alcohol (IPA)
  - (b) Aqueous cleaning agents  
Pine Alpha ST-100S  
LQH66S series: Aqueous agents should not be used because they may cause quality deterioration or damage to appearance.

- (4) Ensure that flux residue is completely removed.  
Component should be thoroughly dried after aqueous agents have been removed with deionized water.

For additional cleaning methods, please contact Murata.

■ Minimum Quantity and 8mm Width Taping Dimensions



Paper Tape

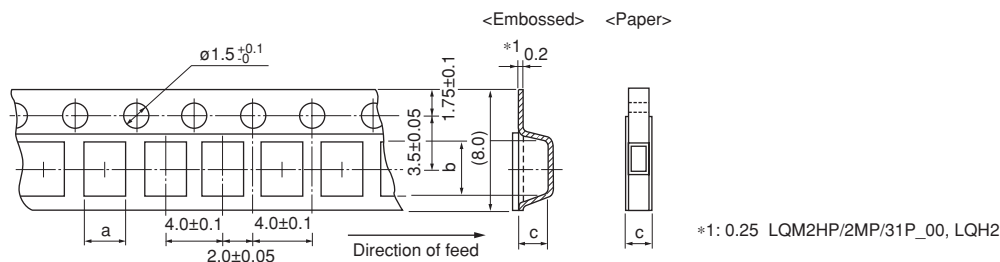
| Part Number | Dimensions |      | Total Thickness of Tape | Packaging Code (Minimum Qty. [pcs.]) |             |         |
|-------------|------------|------|-------------------------|--------------------------------------|-------------|---------|
|             | a          | b    |                         | ø180mm reel                          | ø330mm reel | Bulk    |
| LQW15C_00   | 0.64       | 1.18 | 0.8 max.                | D [10000]                            | -           | B [500] |
| LQW15C_10   | 0.69       | 1.18 | 0.8 max.                | D [10000]                            | -           | B [500] |

(in mm)

Continued on the following page. ↗

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• This catalog has only typical specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

## ■ Minimum Quantity and 8mm Width Taping Dimensions



Dimension of the cavity of embossed tape is measured at the bottom side.

## Paper Tape

| Part Number      | Dimensions |      | Total Thickness of Tape | Packaging Code (Minimum Qty. [pcs.]) |             |          |
|------------------|------------|------|-------------------------|--------------------------------------|-------------|----------|
|                  | a          | b    |                         | ø180mm reel                          | ø330mm reel | Bulk     |
| LQM21D (1-10μH)  | 1.45       | 2.25 | 1.1 max.                | D [4000]                             | J [10000]   | B [1000] |
| LQM21F (1-2.2μH) | 1.45       | 2.25 | 1.1 max.                | D [4000]                             | J [10000]   | B [1000] |
| LQM21P_C0        | 1.45       | 2.25 | 0.8 max.                | D [4000]                             | -           | B [1000] |
| LQM21P_G         | 1.45       | 2.25 | 1.1 max.                | D [4000]                             | -           | B [1000] |
| LQM18F           | 1.05       | 1.85 | 1.1 max.                | D [4000]                             | J [10000]   | B [1000] |
| LQM18P_D0        | 1.05       | 1.85 | 0.85 max.               | D [4000]                             | -           | B [1000] |
| LQW18C           | 1.0        | 1.8  | 1.1 max.                | D [4000]                             | -           | B [500]  |

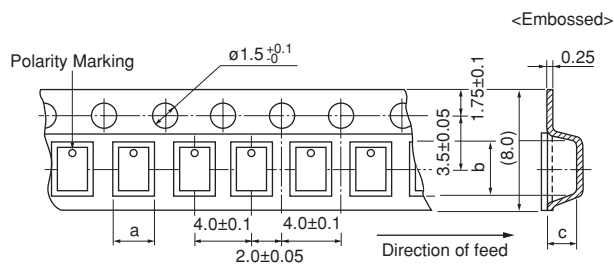
## Embossed Tape

| Part Number       | Dimensions |      | Depth of Cavity | Packaging Code (Minimum Qty. [pcs.]) |             |          |
|-------------------|------------|------|-----------------|--------------------------------------|-------------|----------|
|                   | a          | b    |                 | ø180mm reel                          | ø330mm reel | Bulk     |
| LQM18P_B0         | 1.0        | 1.8  | 0.50            | L [4000]                             | -           | B [1000] |
| LQM18P_C0         | 1.0        | 1.8  | 0.60            | L [4000]                             | -           | B [1000] |
| LQM18P_F0         | 1.0        | 1.8  | 1.0             | L [4000]                             | -           | B [1000] |
| LQM21D (22-47μH)  | 1.45       | 2.25 | 1.3             | L [3000]                             | K [10000]   | B [1000] |
| LQM21F (4.7-47μH) | 1.45       | 2.25 | 1.3             | L [3000]                             | K [10000]   | B [1000] |
| LQM2HP_J0/JC      | 2.25       | 2.75 | 1.3             | L [3000]                             | -           | B [1000] |
| LQM2HP_JH         | 2.25       | 2.75 | 1.3             | L [3000]                             | -           | -        |
| LQM2HP_G          | 2.3        | 2.8  | 1.1             | L [3000]                             | -           | B [1000] |
| LQM2HP_GH         | 2.3        | 2.8  | 1.1             | L [3000]                             | -           | -        |
| LQM2HP_E0         | 2.3        | 2.8  | 0.9             | L [3000]                             | -           | B [1000] |
| LQM2MP_G0         | 1.85       | 2.25 | 1.1             | L [3000]                             | -           | B [1000] |
| LQM2MP_GH         | 1.9        | 2.4  | 1.1             | L [3000]                             | -           | -        |
| LQM31P_00         | 1.9        | 3.5  | 1.05            | L [3000]                             | -           | B [1000] |
| LQM31P_C0         | 1.9        | 3.5  | 0.75            | L [4000]                             | -           | B [1000] |
| LQM32P_G0         | 2.9        | 3.6  | 1.15            | L [3000]                             | -           | B [1000] |
| LQH31C            | 1.9        | 3.6  | 2.0             | L [2000]                             | K [7500]    | -        |
| LQH32C_33/_23     | 2.9        | 3.6  | 2.1             | L [2000]                             | K [7500]    | -        |
| LQH32C_53         | 2.9        | 3.6  | 1.7             | L [2000]                             | K [7500]    | -        |
| LQH32P            | 2.9        | 3.6  | 1.7             | L [2000]                             | K [7500]    | -        |
| LQH2MC_02         | 1.9        | 2.3  | 1.05            | L [3000]                             | -           | B [100]  |
| LQH2MC_52         | 1.9        | 2.3  | 0.8             | L [3000]                             | -           | B [100]  |

(in mm)

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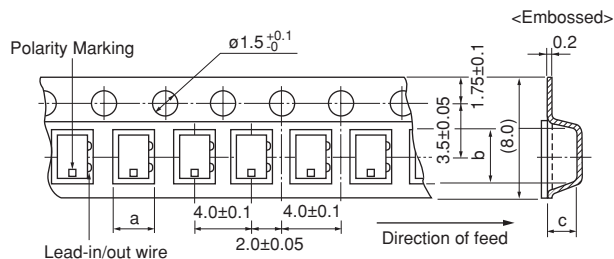
## Minimum Quantity and 8mm Width Taping Dimensions



Dimension of the cavity of embossed tape is measured at the bottom side.

Embossed Tape

| Part Number  | Dimensions |     | Depth of Cavity | Packaging Code (Minimum Qty. [pcs.]) |             |      |
|--------------|------------|-----|-----------------|--------------------------------------|-------------|------|
|              | a          | b   |                 | ø180mm reel                          | ø330mm reel | Bulk |
| LQH2HP_G0/GR | 2.3        | 2.8 | 1.1             | L [3000]                             | -           | -    |
| LQH2HP_J0    | 2.3        | 2.8 | 1.3             | L [2000]                             | -           | -    |
| LQH2HP_M0    | 2.3        | 2.8 | 1.6             | L [2000]                             | -           | -    |



Dimension of the cavity of embossed tape is measured at the bottom side.

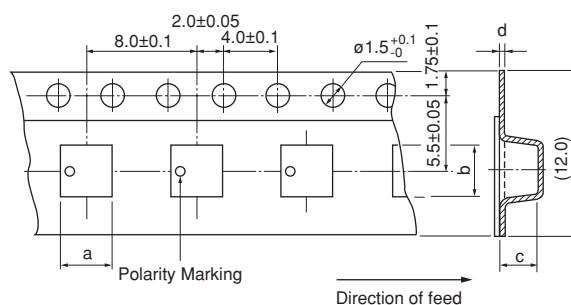
Embossed Tape

| Part Number | Dimensions |     | Depth of Cavity | Packaging Code (Minimum Qty. [pcs.]) |             |      |
|-------------|------------|-----|-----------------|--------------------------------------|-------------|------|
|             | a          | b   |                 | ø180mm reel                          | ø330mm reel | Bulk |
| LQH3NP_MR   | 3.3        | 3.3 | 1.6             | E [2000]                             | F [8000]    | -    |

(in mm)

Continued on the following page.

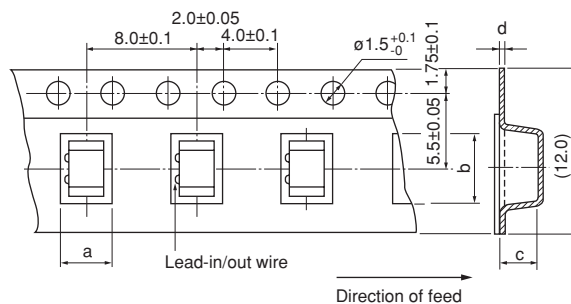
## ■ Minimum Quantity and 12mm Width Embossed Taping Dimensions



Dimension of the cavity of embossed tape is measured at the bottom side.

## Embossed Tape

| Part Number | Dimensions (*c: Depth of Cavity) |     |     |      | Packaging Code (Minimum Qty. [pcs.]) |             |      |
|-------------|----------------------------------|-----|-----|------|--------------------------------------|-------------|------|
|             | a                                | b   | c   | d    | ø180mm reel                          | ø330mm reel | Bulk |
| LQH3NP_M0   | 3.3                              | 3.3 | 1.6 | 0.25 | L [1000]                             | K [4000]    | -    |
| LQH3NP_J0   | 3.3                              | 3.3 | 1.3 | 0.25 | L [1000]                             | K [5000]    | -    |
| LQH3NP_G0   | 3.3                              | 3.3 | 1.1 | 0.25 | L [1500]                             | K [6000]    | -    |



Dimension of the cavity of embossed tape is measured at the bottom side.

## Embossed Tape

| Part Number | Dimensions (*c: Depth of Cavity) |     |     |     | Packaging Code (Minimum Qty. [pcs.]) |             |      |
|-------------|----------------------------------|-----|-----|-----|--------------------------------------|-------------|------|
|             | a                                | b   | c   | d   | ø180mm reel                          | ø330mm reel | Bulk |
| LQH43C      | 3.6                              | 4.9 | 2.7 | 0.3 | L [500]                              | -           | -    |
| LQH43P      | 3.6                              | 4.9 | 2.7 | 0.3 | L [500]                              | K [2500]    | -    |
| LQH44 P_J0  | 4.3                              | 4.3 | 1.4 | 0.3 | L [1000]                             | K [3500]    | -    |
| LQH44P_P0   | 4.3                              | 4.3 | 1.9 | 0.3 | L [1000]                             | K [3500]    | -    |
| LQH5BP      | 5.3                              | 5.3 | 2.4 | 0.3 | L [500]                              | K [3000]    | -    |
| LQH55D      | 5.4                              | 6.1 | 5.0 | 0.4 | L [350]                              | K [1500]    | -    |
| LQH66S      | 6.7                              | 6.7 | 5.6 | 0.4 | L [350]                              | K [1500]    | -    |

(in mm)

## ■ Holder Type



## ● EKLMQM2PK-KIT (Inductors for Power Lines: Multilayer Type)

| No. | Part Number   | Quantity (pcs.) | Inductance |           | DC Resistance (Ω) | Rated Current (mA) |
|-----|---------------|-----------------|------------|-----------|-------------------|--------------------|
|     |               |                 | Nominal    | Tolerance |                   |                    |
| 1   | LQM18PN1R5NB0 | 10              | 1.5μH      | ±30%      | 0.35±25%          | 600                |
| 2   | LQM18PN1R8NC0 | 10              | 1.8μH      | ±30%      | 0.24±25%          | 700                |
| 3   | LQM18PN2R5ND0 | 10              | 2.5μH      | ±30%      | 0.24±25%          | 700                |
| 4   | LQM18PN1R0NF0 | 10              | 1.0μH      | ±30%      | 0.28±25%          | 600                |
| 5   | LQM18PNR22NFR | 10              | 0.22μH     | ±30%      | 0.11±25%          | 1250               |
| 6   | LQM18PNR47NFR | 10              | 0.47μH     | ±30%      | 0.15±25%          | 1100               |
| 7   | LQM18PN1R0MFR | 10              | 1.0μH      | ±20%      | 0.20±25%          | 950                |
| 8   | LQM18PN1R5MFR | 10              | 1.5μH      | ±20%      | 0.23±25%          | 800                |
| 9   | LQM18PN2R2MFR | 10              | 2.2μH      | ±20%      | 0.30±25%          | 750                |
| 10  | LQM18PN3R3MFR | 10              | 3.3μH      | ±20%      | 0.35±25%          | 700                |
| 11  | LQM18PN4R7MFR | 10              | 4.7μH      | ±20%      | 0.44±25%          | 620                |
| 12  | LQM21PNR47MC0 | 10              | 0.47μH     | ±20%      | 0.12±25%          | 1100               |
| 13  | LQM21PN1R0MC0 | 10              | 1.0μH      | ±20%      | 0.19±25%          | 800                |
| 14  | LQM21PN1R5MC0 | 10              | 1.5μH      | ±20%      | 0.26±25%          | 700                |
| 15  | LQM21PN2R2MC0 | 10              | 2.2μH      | ±20%      | 0.34±25%          | 600                |
| 16  | LQM21PNR47MG0 | 10              | 0.47μH     | ±20%      | 0.075±25%         | 1300               |
| 17  | LQM21PNR54MG0 | 10              | 0.54μH     | ±20%      | 0.075±25%         | 1300               |
| 18  | LQM21PN3R3MG0 | 10              | 3.3μH      | ±20%      | 0.165±25%         | 800                |
| 19  | LQM21PN2R2MGS | 10              | 2.2μH      | ±20%      | 0.180±25%         | 950                |
| 20  | LQM21PN4R7MGS | 10              | 4.7μH      | ±20%      | 0.290±25%         | 750                |
| 21  | LQM21PN1R0NGC | 10              | 1.0μH      | ±30%      | 0.10±25%          | 900                |
| 22  | LQM21PN2R2NGC | 10              | 2.2μH      | ±30%      | 0.23±25%          | 800                |
| 23  | LQM21PN1R0NGR | 10              | 1.0μH      | ±30%      | 0.066±25%         | 1300               |
| 24  | LQM21PN3R3MGR | 10              | 3.3μH      | ±20%      | 0.150±25%         | 1000               |
| 25  | LQM21PN4R7MGR | 10              | 4.7μH      | ±20%      | 0.23±25%          | 800                |
| 26  | LQM2MPNR47MG0 | 10              | 0.47μH     | ±20%      | 0.060±25%         | 1600               |
| 27  | LQM2MPN1R0NG0 | 10              | 1.0μH      | ±30%      | 0.085±25%         | 1400               |
| 28  | LQM2MPN1R5MG0 | 10              | 1.5μH      | ±20%      | 0.11±25%          | 1200               |
| 29  | LQM2MPN2R2MG0 | 10              | 2.2μH      | ±20%      | 0.11±25%          | 1200               |
| 30  | LQM2MPN3R3NG0 | 10              | 3.3μH      | ±30%      | 0.12±25%          | 1200               |
| 31  | LQM2MPN4R7MG0 | 10              | 4.7μH      | ±20%      | 0.14±25%          | 1100               |
| 32  | LQM2HPNR56ME0 | 10              | 0.56μH     | ±20%      | 0.06±25%          | 1500               |
| 33  | LQM2HPNR47MG0 | 10              | 0.47μH     | ±20%      | 0.04±25%          | 1800               |
| 34  | LQM2HPN1R0MG0 | 10              | 1.0μH      | ±20%      | 0.055±25%         | 1600               |
| 35  | LQM2HPN1R5MG0 | 10              | 1.5μH      | ±20%      | 0.07±25%          | 1500               |
| 36  | LQM2HPN2R2MG0 | 10              | 2.2μH      | ±20%      | 0.08±25%          | 1300               |
| 37  | LQM2HPN3R3MG0 | 10              | 3.3μH      | ±20%      | 0.10±25%          | 1200               |
| 38  | LQM2HPN4R7MG0 | 10              | 4.7μH      | ±20%      | 0.11±25%          | 1100               |
| 39  | LQM2HPN1R0MGC | 10              | 1.0μH      | ±20%      | 0.08±25%          | 1500               |
| 40  | LQM2HPN3R3MGC | 10              | 3.3μH      | ±20%      | 0.16±25%          | 1000               |
| 41  | LQM2HPN4R7MGC | 10              | 4.7μH      | ±20%      | 0.18±25%          | 800                |
| 42  | LQM2HPN2R2MGS | 10              | 2.2μH      | ±20%      | 0.18±25%          | 1100               |
| 43  | LQM2HPN3R3MGS | 10              | 3.3μH      | ±20%      | 0.21±25%          | 1050               |
| 44  | LQM2HPN4R7MGS | 10              | 4.7μH      | ±20%      | 0.25±25%          | 1000               |
| 45  | LQM2HPN1R0MJ0 | 10              | 1.0μH      | ±20%      | 0.09±25%          | 1500               |
| 46  | LQM2HPN2R2MJ0 | 10              | 2.2μH      | ±20%      | 0.12±25%          | 1000               |
| 47  | LQM2HPN3R3MJ0 | 10              | 3.3μH      | ±20%      | 0.12±25%          | 1000               |
| 48  | LQM2HPN1R0MJC | 10              | 1.0μH      | ±20%      | 0.086±25%         | 1500               |
| 49  | LQM2HPN2R2NJC | 10              | 2.2μH      | ±30%      | 0.175±25%         | 1000               |
| 50  | LQM31PNR47MC0 | 10              | 0.47μH     | ±20%      | 0.085±25%         | 1300               |
| 51  | LQM31PN1R0MC0 | 10              | 1.0μH      | ±20%      | 0.14±25%          | 1100               |
| 52  | LQM31PN1R5MC0 | 10              | 1.5μH      | ±20%      | 0.17±25%          | 1000               |
| 53  | LQM31PN2R2MC0 | 10              | 2.2μH      | ±20%      | 0.25±25%          | 900                |
| 54  | LQM31PNR47M00 | 10              | 0.47μH     | ±20%      | 0.07±25%          | 1400               |
| 55  | LQM31PN1R0M00 | 10              | 1.0μH      | ±20%      | 0.12±25%          | 1200               |

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| No. | Part Number   | Quantity (pcs.) | Inductance |           | DC Resistance (Ω) | Rated Current (mA) |
|-----|---------------|-----------------|------------|-----------|-------------------|--------------------|
|     |               |                 | Nominal    | Tolerance |                   |                    |
| 56  | LQM31PN1R5M00 | 10              | 1.5μH      | ±20%      | 0.14±25%          | 1000               |
| 57  | LQM31PN2R2M00 | 10              | 2.2μH      | ±20%      | 0.19±25%          | 900                |
| 58  | LQM31PN3R3M00 | 10              | 3.3μH      | ±20%      | 0.24±25%          | 800                |
| 59  | LQM31PN4R7M00 | 10              | 4.7μH      | ±20%      | 0.30±25%          | 700                |
| 60  | LQM32PN1R0MG0 | 10              | 1.0μH      | ±20%      | 0.048±25%         | 1800               |

## ●EKLMM18FC-KIT (Inductors for Power Lines: Multilayer Type)

| No. | Part Number   | Quantity (pcs.) | Inductance |           | DC Resistance (Ω) | Rated Current (mA) |
|-----|---------------|-----------------|------------|-----------|-------------------|--------------------|
|     |               |                 | Nominal    | Tolerance |                   |                    |
| 1   | LQM18FN1R0M00 | 10              | 1.0μH      | ±20%      | 0.20±30%          | 150                |
| 2   | LQM18FN2R2M00 | 10              | 2.2μH      | ±20%      | 0.40±30%          | 120                |
| 3   | LQM18FN4R7M00 | 10              | 4.7μH      | ±20%      | 0.60±30%          | 80                 |
| 4   | LQM18FN100M00 | 10              | 10μH       | ±20%      | 0.90±30%          | 50                 |
| 5   | LQM21FN1R0N00 | 10              | 1.0μH      | ±30%      | 0.20±30%          | 220                |
| 6   | LQM21FN2R2N00 | 10              | 2.2μH      | ±30%      | 0.28±30%          | 150                |
| 7   | LQM21FN220N00 | 10              | 22μH       | ±30%      | 0.35±30%          | 13                 |
| 8   | LQM21FN470N00 | 10              | 47μH       | ±30%      | 0.60±30%          | 7                  |
| 9   | LQM21FN4R7M70 | 10              | 4.7μH      | ±20%      | 0.35±30%          | 120                |
| 10  | LQM21FN100M70 | 10              | 10μH       | ±20%      | 0.60±30%          | 100                |
| 11  | LQM21FN4R7M80 | 10              | 4.7μH      | ±20%      | 0.18±30%          | 120                |
| 12  | LQM21FN100M80 | 10              | 10μH       | ±20%      | 0.30±30%          | 100                |

## ●EKLHM2MCK-KIT (Inductors for Power Lines: Wire Wound Type)

| No. | Part Number   | Quantity (pcs.) | Inductance |           | DC Resistance (Ω) | Rated Current (mA)         |                           |
|-----|---------------|-----------------|------------|-----------|-------------------|----------------------------|---------------------------|
|     |               |                 | Nominal    | Tolerance |                   | Based on Inductance Change | Based on Temperature Rise |
| 1   | LQH2MCN1R0M02 | 10              | 1.0μH      | ±20%      | 0.30±30%          | -                          | 485                       |
| 2   | LQH2MCN1R5M02 | 10              | 1.5μH      | ±20%      | 0.40±30%          | -                          | 445                       |
| 3   | LQH2MCN2R2M02 | 10              | 2.2μH      | ±20%      | 0.48±30%          | -                          | 425                       |
| 4   | LQH2MCN3R3M02 | 10              | 3.3μH      | ±20%      | 0.60±30%          | -                          | 375                       |
| 5   | LQH2MCN4R7M02 | 10              | 4.7μH      | ±20%      | 0.8±30%           | -                          | 300                       |
| 6   | LQH2MCN5R6M02 | 10              | 5.6μH      | ±20%      | 0.9±30%           | -                          | 280                       |
| 7   | LQH2MCN6R8M02 | 10              | 6.8μH      | ±20%      | 1.0±30%           | -                          | 255                       |
| 8   | LQH2MCN8R2M02 | 10              | 8.2μH      | ±20%      | 1.1±30%           | -                          | 235                       |
| 9   | LQH2MCN100K02 | 10              | 10μH       | ±10%      | 1.2±30%           | -                          | 225                       |
| 10  | LQH2MCN120K02 | 10              | 12μH       | ±10%      | 1.4±30%           | -                          | 210                       |
| 11  | LQH2MCN150K02 | 10              | 15μH       | ±10%      | 1.6±30%           | -                          | 200                       |
| 12  | LQH2MCN180K02 | 10              | 18μH       | ±10%      | 1.8±30%           | -                          | 190                       |
| 13  | LQH2MCN220K02 | 10              | 22μH       | ±10%      | 2.1±30%           | -                          | 185                       |
| 14  | LQH2MCN270K02 | 10              | 27μH       | ±10%      | 2.5±30%           | -                          | 180                       |
| 15  | LQH2MCN330K02 | 10              | 33μH       | ±10%      | 2.8±30%           | -                          | 160                       |
| 16  | LQH2MCN390K02 | 10              | 39μH       | ±10%      | 4.4±30%           | -                          | 125                       |
| 17  | LQH2MCN470K02 | 10              | 47μH       | ±10%      | 5.1±30%           | -                          | 120                       |
| 18  | LQH2MCN560K02 | 10              | 56μH       | ±10%      | 5.7±30%           | -                          | 110                       |
| 19  | LQH2MCN680K02 | 10              | 68μH       | ±10%      | 6.6±30%           | -                          | 100                       |
| 20  | LQH2MCN820K02 | 10              | 82μH       | ±10%      | 7.5±30%           | -                          | 90                        |
| 21  | LQH2MCN1R0M52 | 10              | 1.0μH      | ±20%      | 0.25±30%          | -                          | 595                       |
| 22  | LQH2MCN1R5M52 | 10              | 1.5μH      | ±20%      | 0.33±30%          | -                          | 540                       |
| 23  | LQH2MCN2R2M52 | 10              | 2.2μH      | ±20%      | 0.42±30%          | -                          | 500                       |
| 24  | LQH2MCN3R3M52 | 10              | 3.3μH      | ±20%      | 0.74±30%          | -                          | 360                       |
| 25  | LQH2MCN4R7M52 | 10              | 4.7μH      | ±20%      | 0.91±30%          | -                          | 335                       |
| 26  | LQH2MCN6R8M52 | 10              | 6.8μH      | ±20%      | 1.23±30%          | -                          | 285                       |
| 27  | LQH2MCN100M52 | 10              | 10μH       | ±20%      | 2.27±30%          | -                          | 200                       |
| 28  | LQH2MCN120M52 | 10              | 12μH       | ±20%      | 2.4±30%           | -                          | 170                       |
| 29  | LQH2MCN150M52 | 10              | 15μH       | ±20%      | 3.5±30%           | -                          | 150                       |
| 30  | LQH2MCN180M52 | 10              | 18μH       | ±20%      | 4±30%             | -                          | 140                       |
| 31  | LQH2MCN220M52 | 10              | 22μH       | ±20%      | 5.5±30%           | -                          | 130                       |
| 32  | LQH2HPN2R2MG0 | 10              | 2.2μH      | ±20%      | 0.17±20%          | 1640                       | 1000                      |
| 33  | LQH2HPN3R3MG0 | 10              | 3.3μH      | ±20%      | 0.27±20%          | 1290                       | 810                       |
| 34  | LQH2HPN4R7MG0 | 10              | 4.7μH      | ±20%      | 0.36±20%          | 1000                       | 700                       |
| 35  | LQH2HPN6R8MG0 | 10              | 6.8μH      | ±20%      | 0.5±20%           | 800                        | 590                       |
| 36  | LQH2HPN100MG0 | 10              | 10μH       | ±20%      | 0.73±20%          | 700                        | 490                       |
| 37  | LQH2HPN220MG0 | 10              | 22μH       | ±20%      | 1.6±20%           | 490                        | 340                       |
| 38  | LQH2HPN101MG0 | 10              | 100μH      | ±20%      | 10±20%            | 210                        | 130                       |
| 39  | LQH2HPN1R0MGR | 10              | 1.0μH      | ±20%      | 0.068±20%         | 2130                       | 2100                      |
| 40  | LQH2HPN2R2MGR | 10              | 2.2μH      | ±20%      | 0.134±20%         | 1550                       | 1470                      |

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| No. | Part Number   | Quantity (pcs.) | Inductance |           | DC Resistance (Ω) | Rated Current (mA)         |                           |
|-----|---------------|-----------------|------------|-----------|-------------------|----------------------------|---------------------------|
|     |               |                 | Nominal    | Tolerance |                   | Based on Inductance Change | Based on Temperature Rise |
| 41  | LQH2HPN1R5NJ0 | 10              | 1.5μH      | ±30%      | 0.096±20%         | 2400                       | 1500                      |
| 42  | LQH2HPN2R2MJ0 | 10              | 2.2μH      | ±20%      | 0.132±20%         | 1800                       | 1300                      |
| 43  | LQH2HPN3R3MJ0 | 10              | 3.3μH      | ±20%      | 0.230±20%         | 1500                       | 950                       |
| 44  | LQH2HPN4R7MJ0 | 10              | 4.7μH      | ±20%      | 0.330±20%         | 1250                       | 700                       |
| 45  | LQH2HPN6R8MJ0 | 10              | 6.8μH      | ±20%      | 0.448±20%         | 1100                       | 600                       |
| 46  | LQH2HPN100MJ0 | 10              | 10μH       | ±20%      | 0.641±20%         | 820                        | 550                       |
| 47  | LQH2HPN2R2MM0 | 10              | 2.2μH      | ±20%      | 0.146±20%         | 1700                       | 1250                      |
| 48  | LQH2HPN4R7NM0 | 10              | 4.7μH      | ±30%      | 0.342±20%         | 1200                       | 800                       |

### ●EKLQMH3PE-KIT (Inductors for Power Lines: Wire Wound Type)

| No. | Part Number   | Quantity (pcs.) | Inductance |           | DC Resistance (Ω) | Rated Current (mA)         |                           |
|-----|---------------|-----------------|------------|-----------|-------------------|----------------------------|---------------------------|
|     |               |                 | Nominal    | Tolerance |                   | Based on Inductance Change | Based on Temperature Rise |
| 1   | LQH3NPN1R0NG0 | 10              | 1.0μH      | ±30%      | 0.08±20%          | 1650                       | 1525                      |
| 2   | LQH3NPN1R5NG0 | 10              | 1.5μH      | ±30%      | 0.10±20%          | 1300                       | 1470                      |
| 3   | LQH3NPN2R2NG0 | 10              | 2.2μH      | ±30%      | 0.14±20%          | 1250                       | 1270                      |
| 4   | LQH3NPN3R3NG0 | 10              | 3.3μH      | ±30%      | 0.18±20%          | 850                        | 1130                      |
| 5   | LQH3NPN4R7NG0 | 10              | 4.7μH      | ±30%      | 0.26±20%          | 800                        | 925                       |
| 6   | LQH3NPN6R8NG0 | 10              | 6.8μH      | ±30%      | 0.45±20%          | 650                        | 710                       |
| 7   | LQH3NPN100MG0 | 10              | 10μH       | ±20%      | 0.57±20%          | 500                        | 630                       |
| 8   | LQH3NPN150NG0 | 10              | 15μH       | ±30%      | 0.91±20%          | 370                        | 475                       |
| 9   | LQH3NPN220MG0 | 10              | 22μH       | ±20%      | 1.1±20%           | 340                        | 430                       |
| 10  | LQH3NPN330MG0 | 10              | 33μH       | ±20%      | 2.1±20%           | 250                        | 345                       |
| 11  | LQH3NPN470MG0 | 10              | 47μH       | ±20%      | 3.0±20%           | 170                        | 270                       |
| 12  | LQH3NPN680MG0 | 10              | 68μH       | ±20%      | 4.2±20%           | 150                        | 235                       |
| 13  | LQH3NPN101MG0 | 10              | 100μH      | ±20%      | 8.0±20%           | 140                        | 165                       |
| 14  | LQH3NPN151MG0 | 10              | 150μH      | ±20%      | 11±20%            | 110                        | 145                       |
| 15  | LQH3NPN221MG0 | 10              | 220μH      | ±20%      | 14±20%            | 100                        | 130                       |
| 16  | LQH3NPN251MG0 | 10              | 250μH      | ±20%      | 15±20%            | 80                         | 130                       |
| 17  | LQH3NPN1R0NJ0 | 10              | 1.0μH      | ±30%      | 0.040±20%         | 1650                       | 1620                      |
| 18  | LQH3NPN1R5NJ0 | 10              | 1.5μH      | ±30%      | 0.055±20%         | 1200                       | 1500                      |
| 19  | LQH3NPN2R2MJ0 | 10              | 2.2μH      | ±20%      | 0.069±20%         | 1150                       | 1460                      |
| 20  | LQH3NPN3R3MJ0 | 10              | 3.3μH      | ±20%      | 0.105±20%         | 950                        | 1270                      |
| 21  | LQH3NPN4R7MJ0 | 10              | 4.7μH      | ±20%      | 0.130±20%         | 780                        | 1120                      |
| 22  | LQH3NPN6R8MJ0 | 10              | 6.8μH      | ±20%      | 0.210±20%         | 700                        | 850                       |
| 23  | LQH3NPN100MJ0 | 10              | 10μH       | ±20%      | 0.300±20%         | 560                        | 710                       |
| 24  | LQH3NPN150MJ0 | 10              | 15μH       | ±20%      | 0.440±20%         | 440                        | 590                       |
| 25  | LQH3NPN220MJ0 | 10              | 22μH       | ±20%      | 0.600±20%         | 350                        | 510                       |
| 26  | LQH3NPN330MJ0 | 10              | 33μH       | ±20%      | 0.900±20%         | 280                        | 410                       |
| 27  | LQH3NPN470MJ0 | 10              | 47μH       | ±20%      | 1.30±20%          | 200                        | 350                       |
| 28  | LQH3NPN1R0MM0 | 10              | 1.0μH      | ±20%      | 0.044±20%         | 1400                       | 2050                      |
| 29  | LQH3NPN2R2MM0 | 10              | 2.2μH      | ±20%      | 0.073±20%         | 1250                       | 1600                      |
| 30  | LQH3NPN3R3MM0 | 10              | 3.3μH      | ±20%      | 0.092±20%         | 1000                       | 1450                      |
| 31  | LQH3NPN4R7MM0 | 10              | 4.7μH      | ±20%      | 0.13±20%          | 880                        | 1250                      |
| 32  | LQH3NPN6R8MM0 | 10              | 6.8μH      | ±20%      | 0.20±20%          | 820                        | 1000                      |
| 33  | LQH3NPN100MM0 | 10              | 10μH       | ±20%      | 0.26±20%          | 550                        | 870                       |
| 34  | LQH3NPN150MM0 | 10              | 15μH       | ±20%      | 0.36±20%          | 520                        | 730                       |
| 35  | LQH3NPN220MM0 | 10              | 22μH       | ±20%      | 0.51±20%          | 410                        | 650                       |
| 36  | LQH3NPN330MM0 | 10              | 33μH       | ±20%      | 0.85±20%          | 370                        | 500                       |
| 37  | LQH3NPN470MM0 | 10              | 47μH       | ±20%      | 1.25±20%          | 310                        | 410                       |
| 38  | LQH3NPN101MM0 | 10              | 100μH      | ±20%      | 3.50±20%          | 200                        | 240                       |
| 39  | LQH3NPN1R0MMR | 10              | 1.0μH      | ±20%      | 0.042±20%         | 1600                       | 2150                      |
| 40  | LQH3NPN2R2MMR | 10              | 2.2μH      | ±20%      | 0.068±20%         | 1380                       | 1750                      |
| 41  | LQH3NPN3R3MMR | 10              | 3.3μH      | ±20%      | 0.088±20%         | 1200                       | 1550                      |
| 42  | LQH3NPN4R7MMR | 10              | 4.7μH      | ±20%      | 0.105±20%         | 950                        | 1400                      |
| 43  | LQH3NPN6R8MMR | 10              | 6.8μH      | ±20%      | 0.155±20%         | 830                        | 1250                      |
| 44  | LQH3NPN100MMR | 10              | 10μH       | ±20%      | 0.210±20%         | 590                        | 1150                      |
| 45  | LQH3NPN220MMR | 10              | 22μH       | ±20%      | 0.480±20%         | 430                        | 750                       |
| 46  | LQH3NPN330MMR | 10              | 33μH       | ±20%      | 0.790±20%         | 380                        | 600                       |
| 47  | LQH3NPN470MMR | 10              | 47μH       | ±20%      | 1.140±20%         | 320                        | 460                       |
| 48  | LQH32PNR47NN0 | 10              | 0.47μH     | ±30%      | 0.030±20%         | 3400                       | 2550                      |
| 49  | LQH32PN1R0NN0 | 10              | 1.0μH      | ±30%      | 0.045±20%         | 2300                       | 2050                      |
| 50  | LQH32PN1R5NN0 | 10              | 1.5μH      | ±30%      | 0.057±20%         | 1750                       | 1750                      |
| 51  | LQH32PN2R2NN0 | 10              | 2.2μH      | ±30%      | 0.076±20%         | 1550                       | 1600                      |
| 52  | LQH32PN3R3NN0 | 10              | 3.3μH      | ±30%      | 0.12±20%          | 1250                       | 1200                      |
| 53  | LQH32PN4R7NN0 | 10              | 4.7μH      | ±30%      | 0.18±20%          | 1000                       | 1000                      |

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| No. | Part Number   | Quantity (pcs.) | Inductance |           | DC Resistance (Ω) | Rated Current (mA)         |                           |
|-----|---------------|-----------------|------------|-----------|-------------------|----------------------------|---------------------------|
|     |               |                 | Nominal    | Tolerance |                   | Based on Inductance Change | Based on Temperature Rise |
| 54  | LQH32PN6R8NN0 | 10              | 6.8μH      | ±30%      | 0.24±20%          | 850                        | 850                       |
| 55  | LQH32PN100MN0 | 10              | 10μH       | ±20%      | 0.38±20%          | 750                        | 700                       |
| 56  | LQH32PN150MN0 | 10              | 15μH       | ±20%      | 0.57±20%          | 600                        | 520                       |
| 57  | LQH32PN220MN0 | 10              | 22μH       | ±20%      | 0.81±20%          | 500                        | 450                       |
| 58  | LQH32PN330MN0 | 10              | 33μH       | ±20%      | 1.15±20%          | 380                        | 390                       |
| 59  | LQH32PN470MN0 | 10              | 47μH       | ±20%      | 1.78±20%          | 330                        | 310                       |
| 60  | LQH32PN680MN0 | 10              | 68μH       | ±20%      | 2.28±20%          | 280                        | 275                       |
| 61  | LQH32PN101MN0 | 10              | 100μH      | ±20%      | 2.70±20%          | 180                        | 250                       |
| 62  | LQH32PN121MN0 | 10              | 120μH      | ±20%      | 4.38±20%          | 170                        | 200                       |
| 63  | LQH32PNR47NNC | 10              | 0.47μH     | ±30%      | 0.024±20%         | 4400                       | 2900                      |
| 64  | LQH32PN1R0NNC | 10              | 1.0μH      | ±30%      | 0.036±20%         | 3000                       | 2500                      |
| 65  | LQH32PN1R5NNC | 10              | 1.5μH      | ±30%      | 0.053±20%         | 2600                       | 2100                      |
| 66  | LQH32PN2R2NNC | 10              | 2.2μH      | ±30%      | 0.064±20%         | 2000                       | 1850                      |
| 67  | LQH32PN3R3NNC | 10              | 3.3μH      | ±30%      | 0.100±20%         | 1900                       | 1550                      |
| 68  | LQH32PN4R7NNC | 10              | 4.7μH      | ±30%      | 0.155±20%         | 1600                       | 1200                      |
| 69  | LQH32PN6R8NNC | 10              | 6.8μH      | ±30%      | 0.220±20%         | 1300                       | 1100                      |
| 70  | LQH32PN100MNC | 10              | 10μH       | ±20%      | 0.295±20%         | 1000                       | 900                       |
| 71  | LQH32PN150MNC | 10              | 15μH       | ±20%      | 0.475±20%         | 800                        | 700                       |
| 72  | LQH32PN220MNC | 10              | 22μH       | ±20%      | 0.685±20%         | 650                        | 550                       |

## ●EKLQMH3BA-KIT (Inductors for Power Lines: Wire Wound Type)

| No. | Part Number   | Quantity (pcs.) | Inductance |           | DC Resistance (Ω) | Rated Current (mA)         |                           |                           |
|-----|---------------|-----------------|------------|-----------|-------------------|----------------------------|---------------------------|---------------------------|
|     |               |                 | Nominal    | Tolerance |                   | Based on Inductance Change | Based on Temperature Rise |                           |
|     |               |                 |            |           |                   |                            | Ambient temperature 85°C  | Ambient temperature 105°C |
| 1   | LQH32PBR47NN0 | 10              | 0.47μH     | ±30%      | 0.030±20%         | 3400                       | 2550                      | 1600                      |
| 2   | LQH32PB1R0NN0 | 10              | 1.0μH      | ±30%      | 0.045±20%         | 2300                       | 2050                      | 1320                      |
| 3   | LQH32PB1R5NN0 | 10              | 1.5μH      | ±30%      | 0.057±20%         | 1750                       | 1750                      | 1010                      |
| 4   | LQH32PB2R2NN0 | 10              | 2.2μH      | ±30%      | 0.076±20%         | 1550                       | 1600                      | 970                       |
| 5   | LQH32PB3R3NN0 | 10              | 3.3μH      | ±30%      | 0.12±20%          | 1250                       | 1200                      | 670                       |
| 6   | LQH32PB4R7NN0 | 10              | 4.7μH      | ±30%      | 0.18±20%          | 1000                       | 1000                      | 530                       |
| 7   | LQH32PB6R8NN0 | 10              | 6.8μH      | ±30%      | 0.24±20%          | 850                        | 850                       | 510                       |
| 8   | LQH32PB100MN0 | 10              | 10μH       | ±20%      | 0.38±20%          | 750                        | 700                       | 380                       |
| 9   | LQH32PB150MN0 | 10              | 15μH       | ±20%      | 0.57±20%          | 600                        | 520                       | 320                       |
| 10  | LQH32PB220MN0 | 10              | 22μH       | ±20%      | 0.81±20%          | 500                        | 450                       | 240                       |
| 11  | LQH32PB330MN0 | 10              | 33μH       | ±20%      | 1.15±20%          | 380                        | 390                       | 190                       |
| 12  | LQH32PB470MN0 | 10              | 47μH       | ±20%      | 1.78±20%          | 330                        | 310                       | 140                       |
| 13  | LQH32PB680MN0 | 10              | 68μH       | ±20%      | 2.28±20%          | 280                        | 275                       | 120                       |
| 14  | LQH32PB101MN0 | 10              | 100μH      | ±20%      | 2.70±20%          | 180                        | 250                       | 110                       |
| 15  | LQH32PB121MN0 | 10              | 120μH      | ±20%      | 4.38±20%          | 170                        | 200                       | 80                        |
| 16  | LQH32PBR47NNC | 10              | 0.47μH     | ±30%      | 0.024±20%         | 4400                       | 2900                      | 1490                      |
| 17  | LQH32PB1R0NNC | 10              | 1.0μH      | ±30%      | 0.036±20%         | 3000                       | 2500                      | 1380                      |
| 18  | LQH32PB1R5NNC | 10              | 1.5μH      | ±30%      | 0.053±20%         | 2600                       | 2100                      | 1110                      |
| 19  | LQH32PB2R2NNC | 10              | 2.2μH      | ±30%      | 0.064±20%         | 2000                       | 1850                      | 910                       |
| 20  | LQH32PB3R3NNC | 10              | 3.3μH      | ±30%      | 0.100±20%         | 1900                       | 1550                      | 800                       |
| 21  | LQH32PB4R7NNC | 10              | 4.7μH      | ±30%      | 0.155±20%         | 1600                       | 1200                      | 610                       |
| 22  | LQH32PB6R8NNC | 10              | 6.8μH      | ±30%      | 0.220±20%         | 1300                       | 1100                      | 550                       |
| 23  | LQH32PB100MNC | 10              | 10μH       | ±20%      | 0.295±20%         | 1000                       | 900                       | 450                       |
| 24  | LQH32PB150MNC | 10              | 15μH       | ±20%      | 0.475±20%         | 800                        | 700                       | 330                       |
| 25  | LQH32PB220MNC | 10              | 22μH       | ±20%      | 0.685±20%         | 650                        | 550                       | 270                       |

## ●EKLQMH4PD-KIT (Inductors for Power Lines: Wire Wound Type)

| No. | Part Number   | Quantity (pcs.) | Inductance |           | DC Resistance (Ω) | Rated Current (mA)         |                           |
|-----|---------------|-----------------|------------|-----------|-------------------|----------------------------|---------------------------|
|     |               |                 | Nominal    | Tolerance |                   | Based on Inductance Change | Based on Temperature Rise |
| 1   | LQH44PN1R0NJ0 | 10              | 1.0μH      | ±30%      | 0.048±20%         | 2000                       | 1530                      |
| 2   | LQH44PN1R5MJ0 | 10              | 1.5μH      | ±20%      | 0.061±20%         | 1600                       | 1380                      |
| 3   | LQH44PN2R2MJ0 | 10              | 2.2μH      | ±20%      | 0.074±20%         | 1320                       | 1230                      |
| 4   | LQH44PN3R3MJ0 | 10              | 3.3μH      | ±20%      | 0.088±20%         | 900                        | 1000                      |
| 5   | LQH44PN4R7MJ0 | 10              | 4.7μH      | ±20%      | 0.117±20%         | 840                        | 980                       |
| 6   | LQH44PN6R8MJ0 | 10              | 6.8μH      | ±20%      | 0.143±20%         | 720                        | 860                       |
| 7   | LQH44PN100MJ0 | 10              | 10μH       | ±20%      | 0.207±20%         | 560                        | 790                       |
| 8   | LQH44PN150MJ0 | 10              | 15μH       | ±20%      | 0.385±20%         | 430                        | 610                       |
| 9   | LQH44PN220MJ0 | 10              | 22μH       | ±20%      | 0.480±20%         | 400                        | 550                       |
| 10  | LQH44PN330MJ0 | 10              | 33μH       | ±20%      | 0.740±20%         | 360                        | 430                       |
| 11  | LQH44PN470MJ0 | 10              | 47μH       | ±20%      | 1.014±20%         | 300                        | 380                       |
| 12  | LQH44PN1R0NP0 | 10              | 1.0μH      | ±30%      | 0.030±20%         | 2950                       | 2450                      |

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| No. | Part Number   | Quantity<br>(pcs.) | Inductance |           | DC Resistance<br>(Ω) | Rated Current (mA)         |                           |
|-----|---------------|--------------------|------------|-----------|----------------------|----------------------------|---------------------------|
|     |               |                    | Nominal    | Tolerance |                      | Based on Inductance Change | Based on Temperature Rise |
| 13  | LQH44PN2R2MP0 | 10                 | 2.2μH      | ±20%      | 0.049±20%            | 2500                       | 1800                      |
| 14  | LQH44PN3R3MP0 | 10                 | 3.3μH      | ±20%      | 0.065±20%            | 2100                       | 1770                      |
| 15  | LQH44PN4R7MP0 | 10                 | 4.7μH      | ±20%      | 0.080±20%            | 1700                       | 1700                      |
| 16  | LQH44PN6R8MP0 | 10                 | 6.8μH      | ±20%      | 0.12±20%             | 1400                       | 1340                      |
| 17  | LQH44PN100MP0 | 10                 | 10μH       | ±20%      | 0.16±20%             | 1150                       | 1170                      |
| 18  | LQH44PN220MP0 | 10                 | 22μH       | ±20%      | 0.37±20%             | 800                        | 790                       |
| 19  | LQH43PN1R0N26 | 10                 | 1.0μH      | ±30%      | 0.026±20%            | 3400                       | 3300                      |
| 20  | LQH43PN2R2M26 | 10                 | 2.2μH      | ±20%      | 0.042±20%            | 2300                       | 2500                      |
| 21  | LQH43PN3R3M26 | 10                 | 3.3μH      | ±20%      | 0.052±20%            | 1800                       | 2100                      |
| 22  | LQH43PN4R7M26 | 10                 | 4.7μH      | ±20%      | 0.075±20%            | 1400                       | 1600                      |
| 23  | LQH43PN6R8M26 | 10                 | 6.8μH      | ±20%      | 0.098±20%            | 1200                       | 1400                      |
| 24  | LQH43PN8R2M26 | 10                 | 8.2μH      | ±20%      | 0.128±20%            | 1100                       | 1300                      |
| 25  | LQH43PN100M26 | 10                 | 10μH       | ±20%      | 0.147±20%            | 1050                       | 1170                      |
| 26  | LQH43PN220M26 | 10                 | 22μH       | ±20%      | 0.327±20%            | 700                        | 780                       |
| 27  | LQH43PN470M26 | 10                 | 47μH       | ±20%      | 0.718±20%            | 470                        | 520                       |
| 28  | LQH43PN101M26 | 10                 | 100μH      | ±20%      | 1.538±20%            | 320                        | 320                       |
| 29  | LQH43PN151M26 | 10                 | 150μH      | ±20%      | 2.362±20%            | 280                        | 260                       |
| 30  | LQH43PN221M26 | 10                 | 220μH      | ±20%      | 2.900±20%            | 220                        | 240                       |

### ●EKL MQH5PC-KIT (Inductors for Power Lines: Wire Wound Type)

| No. | Part Number   | Quantity<br>(pcs.) | Inductance |           | DC Resistance<br>(Ω) | Rated Current (mA)         |                           |
|-----|---------------|--------------------|------------|-----------|----------------------|----------------------------|---------------------------|
|     |               |                    | Nominal    | Tolerance |                      | Based on Inductance Change | Based on Temperature Rise |
| 1   | LQH5BPNR47NT0 | 10                 | 0.47μH     | ±30%      | 0.012±20%            | 7700                       | 4000                      |
| 2   | LQH5BPN1R0NT0 | 10                 | 1.0μH      | ±30%      | 0.019±20%            | 5800                       | 3100                      |
| 3   | LQH5BPN1R2NT0 | 10                 | 1.2μH      | ±30%      | 0.019±20%            | 5400                       | 3100                      |
| 4   | LQH5BPN1R5NT0 | 10                 | 1.5μH      | ±30%      | 0.024±20%            | 5000                       | 3000                      |
| 5   | LQH5BPN2R2NT0 | 10                 | 2.2μH      | ±30%      | 0.030±20%            | 4000                       | 2600                      |
| 6   | LQH5BPN2R7NT0 | 10                 | 2.7μH      | ±30%      | 0.035±20%            | 3800                       | 2500                      |
| 7   | LQH5BPN3R3NT0 | 10                 | 3.3μH      | ±30%      | 0.044±20%            | 3500                       | 2300                      |
| 8   | LQH5BPN4R7NT0 | 10                 | 4.7μH      | ±30%      | 0.058±20%            | 3000                       | 2000                      |
| 9   | LQH5BPN6R8NT0 | 10                 | 6.8μH      | ±30%      | 0.083±20%            | 2500                       | 1650                      |
| 10  | LQH5BPN100MT0 | 10                 | 10μH       | ±20%      | 0.106±20%            | 2000                       | 1600                      |
| 11  | LQH5BPN150MT0 | 10                 | 15μH       | ±20%      | 0.187±20%            | 1600                       | 1200                      |
| 12  | LQH5BPN220MT0 | 10                 | 22μH       | ±20%      | 0.259±20%            | 1400                       | 1050                      |

### ●EKL MH32CC-KIT (Inductors for Power Lines: Wire Wound Type)

| No. | Part Number   | Quantity<br>(pcs.) | Inductance |           | DC Resistance<br>(Ω) | Rated Current<br>(mA) |
|-----|---------------|--------------------|------------|-----------|----------------------|-----------------------|
|     |               |                    | Nominal    | Tolerance |                      |                       |
| 1   | LQH32CNR15M33 | 10                 | 0.15μH     | ±20%      | 0.028±30%            | 1450                  |
| 2   | LQH32CNR27M33 | 10                 | 0.27μH     | ±20%      | 0.034±30%            | 1250                  |
| 3   | LQH32CNR47M33 | 10                 | 0.47μH     | ±20%      | 0.042±30%            | 1100                  |
| 4   | LQH32CN1R0M33 | 10                 | 1.0μH      | ±20%      | 0.06±30%             | 1000                  |
| 5   | LQH32CN2R2M33 | 10                 | 2.2μH      | ±20%      | 0.097±30%            | 790                   |
| 6   | LQH32CN4R7M33 | 10                 | 4.7μH      | ±20%      | 0.15±30%             | 650                   |
| 7   | LQH32CN100K33 | 10                 | 10μH       | ±10%      | 0.3±30%              | 450                   |
| 8   | LQH32CN1R0M23 | 10                 | 1.0μH      | ±20%      | 0.09±30%             | 800                   |
| 9   | LQH32CN2R2M23 | 10                 | 2.2μH      | ±20%      | 0.13±30%             | 600                   |
| 10  | LQH32CN4R7M23 | 10                 | 4.7μH      | ±20%      | 0.2±30%              | 450                   |
| 11  | LQH32CN100K23 | 10                 | 10μH       | ±10%      | 0.44±30%             | 300                   |
| 12  | LQH32CN220K23 | 10                 | 22μH       | ±10%      | 0.71±30%             | 250                   |
| 13  | LQH32CN470K23 | 10                 | 47μH       | ±10%      | 1.3±30%              | 170                   |
| 14  | LQH32CN101K23 | 10                 | 100μH      | ±10%      | 3.5±30%              | 100                   |
| 15  | LQH32CN221K23 | 10                 | 220μH      | ±10%      | 8.4±30%              | 70                    |
| 16  | LQH32CN331K23 | 10                 | 330μH      | ±10%      | 10±30%               | 60                    |
| 17  | LQH32CN391K23 | 10                 | 390μH      | ±10%      | 17±30%               | 60                    |
| 18  | LQH32CN471K23 | 10                 | 470μH      | ±10%      | 19±30%               | 60                    |
| 19  | LQH32CN561K23 | 10                 | 560μH      | ±10%      | 22±30%               | 60                    |
| 20  | LQH32CN1R0M53 | 10                 | 1.0μH      | ±20%      | 0.06±30%             | 1000                  |
| 21  | LQH32CN2R2M53 | 10                 | 2.2μH      | ±20%      | 0.097±30%            | 790                   |
| 22  | LQH32CN4R7M53 | 10                 | 4.7μH      | ±20%      | 0.15±30%             | 650                   |
| 23  | LQH32CN100K53 | 10                 | 10μH       | ±10%      | 0.3±30%              | 450                   |
| 24  | LQH32CN150K53 | 10                 | 15μH       | ±10%      | 0.58±30%             | 300                   |
| 25  | LQH32CN220K53 | 10                 | 22μH       | ±10%      | 0.71±30%             | 250                   |
| 26  | LQH32CN330K53 | 10                 | 33μH       | ±10%      | 1.1±30%              | 200                   |
| 27  | LQH32CN470K53 | 10                 | 47μH       | ±10%      | 1.3±30%              | 170                   |

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| No. | Part Number   | Quantity<br>(pcs.) | Inductance  |            | DC Resistance<br>( $\Omega$ ) | Rated Current<br>(mA) |
|-----|---------------|--------------------|-------------|------------|-------------------------------|-----------------------|
|     |               |                    | Nominal     | Tolerance  |                               |                       |
| 28  | LQH32CN680K53 | 10                 | 68 $\mu$ H  | $\pm 10\%$ | 2.2 $\pm 30\%$                | 130                   |
| 29  | LQH32CN101K53 | 10                 | 100 $\mu$ H | $\pm 10\%$ | 3.5 $\pm 30\%$                | 100                   |

**●EKLMMH43CD-KIT (Inductors for Power Lines: Wire Wound Type)**

| No. | Part Number   | Quantity<br>(pcs.) | Inductance   |            | DC Resistance<br>( $\Omega$ ) max. | Rated Current<br>(mA) |
|-----|---------------|--------------------|--------------|------------|------------------------------------|-----------------------|
|     |               |                    | Nominal      | Tolerance  |                                    |                       |
| 1   | LQH43CN1R0M03 | 10                 | 1.0 $\mu$ H  | $\pm 20\%$ | 0.08                               | 1080                  |
| 2   | LQH43CN1R5M03 | 10                 | 1.5 $\mu$ H  | $\pm 20\%$ | 0.09                               | 1000                  |
| 3   | LQH43CN2R2M03 | 10                 | 2.2 $\mu$ H  | $\pm 20\%$ | 0.11                               | 900                   |
| 4   | LQH43CN3R3M03 | 10                 | 3.3 $\mu$ H  | $\pm 20\%$ | 0.13                               | 800                   |
| 5   | LQH43CN4R7M03 | 10                 | 4.7 $\mu$ H  | $\pm 20\%$ | 0.15                               | 750                   |
| 6   | LQH43CN6R8M03 | 10                 | 6.8 $\mu$ H  | $\pm 20\%$ | 0.20                               | 720                   |
| 7   | LQH43CN100K03 | 10                 | 10 $\mu$ H   | $\pm 10\%$ | 0.24                               | 650                   |
| 8   | LQH43CN150K03 | 10                 | 15 $\mu$ H   | $\pm 10\%$ | 0.32                               | 570                   |
| 9   | LQH43CN220K03 | 10                 | 22 $\mu$ H   | $\pm 10\%$ | 0.60                               | 420                   |
| 10  | LQH43CN330K03 | 10                 | 33 $\mu$ H   | $\pm 10\%$ | 1.00                               | 310                   |
| 11  | LQH43CN470K03 | 10                 | 47 $\mu$ H   | $\pm 10\%$ | 1.10                               | 280                   |
| 12  | LQH43CN680K03 | 10                 | 68 $\mu$ H   | $\pm 10\%$ | 1.70                               | 220                   |
| 13  | LQH43CN101K03 | 10                 | 100 $\mu$ H  | $\pm 10\%$ | 2.20                               | 190                   |
| 14  | LQH43CN151K03 | 10                 | 150 $\mu$ H  | $\pm 10\%$ | 3.50                               | 130                   |
| 15  | LQH43CN221K03 | 10                 | 220 $\mu$ H  | $\pm 10\%$ | 4.00                               | 110                   |
| 16  | LQH43CN331K03 | 10                 | 330 $\mu$ H  | $\pm 10\%$ | 6.80                               | 100                   |
| 17  | LQH43CN471K03 | 10                 | 470 $\mu$ H  | $\pm 10\%$ | 8.50                               | 90                    |
| 18  | LQH43CNR56M33 | 10                 | 0.56 $\mu$ H | $\pm 20\%$ | 0.030                              | 2950                  |
| 19  | LQH43CNR82M33 | 10                 | 0.82 $\mu$ H | $\pm 20\%$ | 0.036                              | 2800                  |
| 20  | LQH43CN1R0M33 | 10                 | 1.0 $\mu$ H  | $\pm 20\%$ | 0.042                              | 2600                  |
| 21  | LQH43CN1R5M33 | 10                 | 1.5 $\mu$ H  | $\pm 20\%$ | 0.047                              | 2450                  |
| 22  | LQH43CN1R8M33 | 10                 | 1.8 $\mu$ H  | $\pm 20\%$ | 0.055                              | 2300                  |
| 23  | LQH43CN2R2M33 | 10                 | 2.2 $\mu$ H  | $\pm 20\%$ | 0.062                              | 2100                  |
| 24  | LQH43CN2R7M33 | 10                 | 2.7 $\mu$ H  | $\pm 20\%$ | 0.069                              | 1800                  |
| 25  | LQH43CN3R3M33 | 10                 | 3.3 $\mu$ H  | $\pm 20\%$ | 0.099                              | 1650                  |
| 26  | LQH43CN3R9M33 | 10                 | 3.9 $\mu$ H  | $\pm 20\%$ | 0.107                              | 1600                  |

**●EKLMMW18CC-KIT (Inductors for Power Lines: Wire Wound Type)**

| No. | Part Number   | Quantity<br>(pcs.) | Inductance |              | DC Resistance<br>( $\Omega$ ) max. | Rated Current<br>(mA) |
|-----|---------------|--------------------|------------|--------------|------------------------------------|-----------------------|
|     |               |                    | Nominal    | Tolerance    |                                    |                       |
| 1   | LQW15CN18NJ00 | 10                 | 18nH       | $\pm 5\%$    | 0.046                              | 1400                  |
| 2   | LQW15CN33NJ00 | 10                 | 33nH       | $\pm 5\%$    | 0.065                              | 1300                  |
| 3   | LQW15CN48NJ00 | 10                 | 48nH       | $\pm 5\%$    | 0.078                              | 1100                  |
| 4   | LQW15CN70NJ00 | 10                 | 70nH       | $\pm 5\%$    | 0.12                               | 820                   |
| 5   | LQW15CN96NJ00 | 10                 | 96nH       | $\pm 5\%$    | 0.16                               | 730                   |
| 6   | LQW15CNR13J00 | 10                 | 130nH      | $\pm 5\%$    | 0.23                               | 640                   |
| 7   | LQW15CNR16J00 | 10                 | 160nH      | $\pm 5\%$    | 0.33                               | 480                   |
| 8   | LQW15CNR20J00 | 10                 | 200nH      | $\pm 5\%$    | 0.47                               | 390                   |
| 9   | LQW15CNR39K10 | 10                 | 390nH      | $\pm 10\%$   | 0.62                               | 370                   |
| 10  | LQW15CNR56K10 | 10                 | 560nH      | $\pm 10\%$   | 0.71                               | 300                   |
| 11  | LQW18CN4N9D00 | 10                 | 4.9nH      | $\pm 0.5$ nH | 0.015                              | 2600                  |
| 12  | LQW18CN15NJ00 | 10                 | 15nH       | $\pm 5\%$    | 0.025                              | 2200                  |
| 13  | LQW18CN33NJ00 | 10                 | 33nH       | $\pm 5\%$    | 0.035                              | 1700                  |
| 14  | LQW18CN55NJ00 | 10                 | 55nH       | $\pm 5\%$    | 0.045                              | 1500                  |
| 15  | LQW18CN85NJ00 | 10                 | 85nH       | $\pm 5\%$    | 0.060                              | 1400                  |
| 16  | LQW18CNR10K00 | 10                 | 100nH      | $\pm 10\%$   | 0.10                               | 1000                  |
| 17  | LQW18CNR12J00 | 10                 | 120nH      | $\pm 5\%$    | 0.085                              | 1100                  |
| 18  | LQW18CNR16J00 | 10                 | 160nH      | $\pm 5\%$    | 0.10                               | 1000                  |
| 19  | LQW18CNR21J00 | 10                 | 210nH      | $\pm 5\%$    | 0.15                               | 800                   |
| 20  | LQW18CNR27J00 | 10                 | 270nH      | $\pm 5\%$    | 0.16                               | 750                   |
| 21  | LQW18CNR33J00 | 10                 | 330nH      | $\pm 5\%$    | 0.25                               | 630                   |
| 22  | LQW18CNR39J00 | 10                 | 390nH      | $\pm 5\%$    | 0.28                               | 620                   |
| 23  | LQW18CNR47J00 | 10                 | 470nH      | $\pm 5\%$    | 0.45                               | 500                   |
| 24  | LQW18CNR56J00 | 10                 | 560nH      | $\pm 5\%$    | 0.48                               | 450                   |
| 25  | LQW18CNR65J00 | 10                 | 650nH      | $\pm 5\%$    | 0.52                               | 430                   |

**Note** • Please read rating and **CAUTION** (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.  
 • This catalog has only typical specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

## ● Inductors for General Use

|                              |     |
|------------------------------|-----|
| Part Numbering .....         | 118 |
| Product Detail .....         | 119 |
| ⚠Caution/Notice .....        | 136 |
| Soldering and Mounting ..... | 137 |
| Packaging .....              | 141 |
| Design Kits .....            | 142 |

# Inductors for General Use Part Numbering

(Part Number)

|           |          |           |          |          |            |          |          |          |          |
|-----------|----------|-----------|----------|----------|------------|----------|----------|----------|----------|
| <b>LQ</b> | <b>M</b> | <b>18</b> | <b>N</b> | <b>N</b> | <b>47N</b> | <b>M</b> | <b>0</b> | <b>0</b> | <b>D</b> |
| ①         | ②        | ③         | ④        | ⑤        | ⑥          | ⑦        | ⑧        | ⑨        | ⑩        |

## ① Product ID

| Product ID |                             |
|------------|-----------------------------|
| <b>LQ</b>  | Chip Inductors (Chip Coils) |

## ② Structure

| Code     | Structure                      |
|----------|--------------------------------|
| <b>B</b> | Multilayer Type (Ferrite Core) |
| <b>H</b> | Wire Wound Type (Ferrite Core) |
| <b>M</b> | Multilayer Type (Ferrite Core) |

## ③ Dimensions (L×W)

| Code      | Dimensions (L×W) | Size Code (in inch) |
|-----------|------------------|---------------------|
| <b>15</b> | 1.0×0.5mm        | 0402                |
| <b>18</b> | 1.6×0.8mm        | 0603                |
| <b>21</b> | 2.0×1.25mm       | 0805                |
| <b>31</b> | 3.2×1.6mm        | 1206                |
| <b>32</b> | 3.2×2.5mm        | 1210                |
| <b>43</b> | 4.5×3.2mm        | 1812                |
| <b>44</b> | 4.0×4.0mm        | 1515                |

## ④ Applications and Characteristics

| Code     | Series         | Applications and Characteristics    |
|----------|----------------|-------------------------------------|
| <b>N</b> | <b>LQB/LQM</b> | for Resonant Circuit                |
| <b>N</b> | <b>LQH</b>     | for Resonant Circuit                |
| <b>M</b> |                | for Resonant Circuit (Coating Type) |

## ⑤ Category

| Code     | Category      |
|----------|---------------|
| <b>N</b> | Standard Type |

## ⑩ Packaging

| Code     | Packaging                     | Series                   |
|----------|-------------------------------|--------------------------|
| <b>K</b> | Embossed Taping (ø330mm Reel) | <b>LQH/LQM21*1</b>       |
| <b>L</b> | Embossed Taping (ø180mm Reel) | <b>LQH/LQM21*1</b>       |
| <b>B</b> | Bulk                          | <b>LQB/LQM</b>           |
| <b>J</b> | Paper Taping (ø330mm Reel)    | <b>LQB/LQM18/LQM21*2</b> |
| <b>D</b> | Paper Taping (ø180mm Reel)    | <b>LQB/LQM18/LQM21*2</b> |

\*1 LQM21N(2.7 - 4.7μH) only.

\*2 LQM21N(0.1 - 2.2μH) only.

## ⑥ Inductance

Expressed by three-digit alphanumerics. The unit is micro-henry (μH). The first and second figures are significant digits, and the third figure expresses the number of zeros that follow the two figures. If there is a decimal point, it is expressed by the capital letter "R". In this case, all figures are significant digits. If inductance is less than 0.1μH, the inductance code is expressed by a combination of two figures and the capital letter "N", and the unit of inductance is nano-henry (nH). The capital letter "N" indicates the unit of "nH", and also expresses a decimal point. In this case, all figures are significant digits.

## ⑦ Inductance Tolerance

| Code     | Inductance Tolerance |
|----------|----------------------|
| <b>J</b> | ±5%                  |
| <b>K</b> | ±10%                 |
| <b>M</b> | ±20%                 |
| <b>N</b> | ±30%                 |

## ⑧ Features

| Code     | Features      | Series              |
|----------|---------------|---------------------|
| <b>0</b> | Standard Type | <b>LQM*1 /LQH*2</b> |
| <b>1</b> | Standard Type | <b>LQB/LQM21N</b>   |
| <b>2</b> | Standard Type | <b>LQH32M</b>       |

\*1 Except for LQM21N Series

\*2 Except for LQH32 Series

## ⑨ Electrode

•Lead (Pb) Free

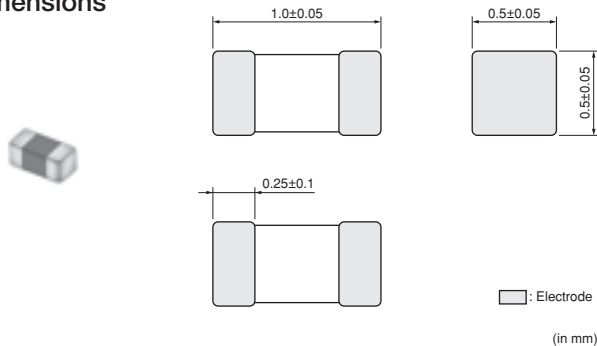
| Code     | Electrode | Series         |
|----------|-----------|----------------|
| <b>0</b> | Sn        | <b>LQB/LQM</b> |
| <b>3</b> | LF Solder | <b>LQH</b>     |

# LQB15NN\_10

Series 0402/1005 (inch/mm)

## For Near Field Communication, Matching, Choke

### ■ Appearance/Dimensions



### ■ Packaging

| Code | Packaging           | Minimum Quantity |
|------|---------------------|------------------|
| D    | ø180mm Paper Taping | 10000            |
| J    | ø330mm Paper Taping | 50000            |
| B    | Packing in Bulk     | 1000             |



Refer to pages 137 to 140 for mounting information.

### ■ Rated Value (□: packaging code)

| Part Number    | Inductance | Inductance Test Frequency | Rated Current <sup>*1</sup> | DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |     |
|----------------|------------|---------------------------|-----------------------------|---------------|----------|------------------|---------------------------------|-----|
| LQB15NNR22J10□ | 220nH ±5%  | 25MHz                     | 380mA                       | 0.35Ω ±25%    | 10       | 25MHz            | 80MHz                           | New |
| LQB15NNR22K10□ | 220nH ±10% | 25MHz                     | 380mA                       | 0.35Ω ±25%    | 10       | 25MHz            | 80MHz                           | New |
| LQB15NNR22M10□ | 220nH ±20% | 25MHz                     | 380mA                       | 0.35Ω ±25%    | 10       | 25MHz            | 80MHz                           | New |
| LQB15NNR27J10□ | 270nH ±5%  | 25MHz                     | 330mA                       | 0.41Ω ±25%    | 10       | 25MHz            | 80MHz                           | New |
| LQB15NNR27K10□ | 270nH ±10% | 25MHz                     | 330mA                       | 0.41Ω ±25%    | 10       | 25MHz            | 80MHz                           | New |
| LQB15NNR27M10□ | 270nH ±20% | 25MHz                     | 330mA                       | 0.41Ω ±25%    | 10       | 25MHz            | 80MHz                           | New |
| LQB15NNR33J10□ | 330nH ±5%  | 25MHz                     | 300mA                       | 0.48Ω ±25%    | 10       | 25MHz            | 80MHz                           | New |
| LQB15NNR33K10□ | 330nH ±10% | 25MHz                     | 300mA                       | 0.48Ω ±25%    | 10       | 25MHz            | 80MHz                           | New |
| LQB15NNR33M10□ | 330nH ±20% | 25MHz                     | 300mA                       | 0.48Ω ±25%    | 10       | 25MHz            | 80MHz                           | New |
| LQB15NNR39J10□ | 390nH ±5%  | 25MHz                     | 300mA                       | 0.54Ω ±25%    | 10       | 25MHz            | 80MHz                           | New |
| LQB15NNR39K10□ | 390nH ±10% | 25MHz                     | 300mA                       | 0.54Ω ±25%    | 10       | 25MHz            | 80MHz                           | New |
| LQB15NNR39M10□ | 390nH ±20% | 25MHz                     | 300mA                       | 0.54Ω ±25%    | 10       | 25MHz            | 80MHz                           | New |
| LQB15NNR47J10□ | 470nH ±5%  | 25MHz                     | 300mA                       | 0.64Ω ±25%    | 10       | 25MHz            | 80MHz                           | New |
| LQB15NNR47K10□ | 470nH ±10% | 25MHz                     | 300mA                       | 0.64Ω ±25%    | 10       | 25MHz            | 80MHz                           | New |
| LQB15NNR47M10□ | 470nH ±20% | 25MHz                     | 300mA                       | 0.64Ω ±25%    | 10       | 25MHz            | 80MHz                           | New |
| LQB15NNR56J10□ | 560nH ±5%  | 25MHz                     | 300mA                       | 0.73Ω ±25%    | 10       | 25MHz            | 80MHz                           | New |
| LQB15NNR56K10□ | 560nH ±10% | 25MHz                     | 300mA                       | 0.73Ω ±25%    | 10       | 25MHz            | 80MHz                           | New |
| LQB15NNR56M10□ | 560nH ±20% | 25MHz                     | 300mA                       | 0.73Ω ±25%    | 10       | 25MHz            | 80MHz                           | New |

Class of Magnetic Shield: Magnetic shield of ferrite

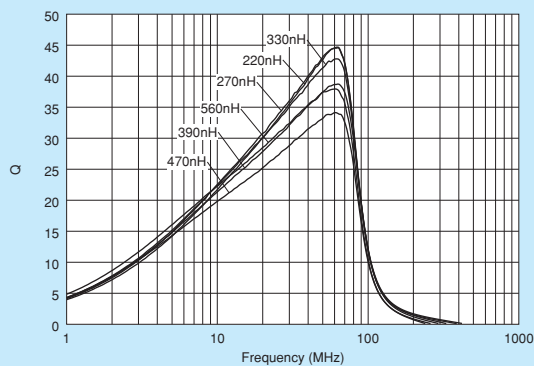
Operating Temperature Range: -55°C~+125°C

For reflow soldering only.

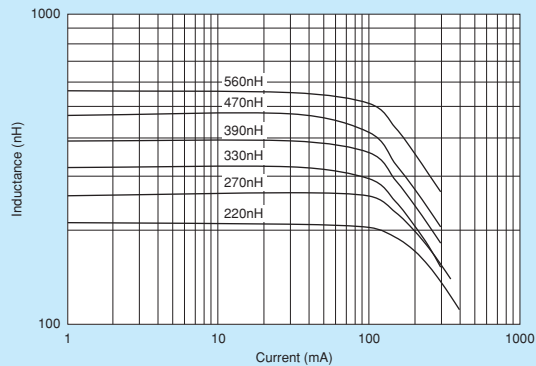
<sup>\*1</sup> When rated current is applied to the products, self-generation of heat will rise to 25°C or less.

Continued on the following page.

### ■ Q-Frequency Characteristics (Typ.)



### ■ Inductance-Current Characteristics (Typ.)

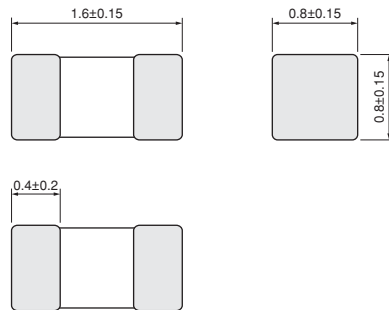


# LQB18NN\_10

Series 0603/1608 (inch/mm)

## For Near Field Communication, Matching, Choke

### ■ Appearance/Dimensions



(in mm)

### ■ Packaging

| Code | Packaging           | Minimum Quantity |
|------|---------------------|------------------|
| D    | ø180mm Paper Taping | 4000             |
| B    | Packing in Bulk     | 1000             |



Refer to pages 137 to 140 for mounting information.

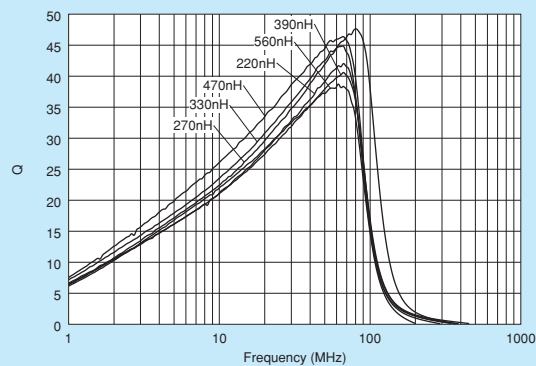
### ■ Rated Value (□: packaging code)

| Part Number    | Inductance | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |     |
|----------------|------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|-----|
| LQB18NNR22J10□ | 220nH ±5%  | 25MHz                     | 450mA         | 0.37Ω                 | 25       | 25MHz            | 80MHz                           | New |
| LQB18NNR22K10□ | 220nH ±10% | 25MHz                     | 450mA         | 0.37Ω                 | 25       | 25MHz            | 80MHz                           | New |
| LQB18NNR22M10□ | 220nH ±20% | 25MHz                     | 450mA         | 0.37Ω                 | 25       | 25MHz            | 80MHz                           | New |
| LQB18NNR22N10□ | 220nH ±30% | 25MHz                     | 450mA         | 0.37Ω                 | 25       | 25MHz            | 80MHz                           | New |
| LQB18NNR27J10□ | 270nH ±5%  | 25MHz                     | 450mA         | 0.45Ω                 | 25       | 25MHz            | 80MHz                           | New |
| LQB18NNR27K10□ | 270nH ±10% | 25MHz                     | 450mA         | 0.45Ω                 | 25       | 25MHz            | 80MHz                           | New |
| LQB18NNR27M10□ | 270nH ±20% | 25MHz                     | 450mA         | 0.45Ω                 | 25       | 25MHz            | 80MHz                           | New |
| LQB18NNR27N10□ | 270nH ±30% | 25MHz                     | 450mA         | 0.45Ω                 | 25       | 25MHz            | 80MHz                           | New |
| LQB18NNR33J10□ | 330nH ±5%  | 25MHz                     | 450mA         | 0.45Ω                 | 25       | 25MHz            | 80MHz                           | New |
| LQB18NNR33K10□ | 330nH ±10% | 25MHz                     | 450mA         | 0.45Ω                 | 25       | 25MHz            | 80MHz                           | New |
| LQB18NNR33M10□ | 330nH ±20% | 25MHz                     | 450mA         | 0.45Ω                 | 25       | 25MHz            | 80MHz                           | New |
| LQB18NNR33N10□ | 330nH ±30% | 25MHz                     | 450mA         | 0.45Ω                 | 25       | 25MHz            | 80MHz                           | New |
| LQB18NNR39J10□ | 390nH ±5%  | 25MHz                     | 450mA         | 0.58Ω                 | 25       | 25MHz            | 80MHz                           | New |
| LQB18NNR39K10□ | 390nH ±10% | 25MHz                     | 450mA         | 0.58Ω                 | 25       | 25MHz            | 80MHz                           | New |
| LQB18NNR39M10□ | 390nH ±20% | 25MHz                     | 450mA         | 0.58Ω                 | 25       | 25MHz            | 80MHz                           | New |
| LQB18NNR39N10□ | 390nH ±30% | 25MHz                     | 450mA         | 0.58Ω                 | 25       | 25MHz            | 80MHz                           | New |
| LQB18NNR47J10□ | 470nH ±5%  | 25MHz                     | 400mA         | 0.58Ω                 | 25       | 25MHz            | 80MHz                           | New |
| LQB18NNR47K10□ | 470nH ±10% | 25MHz                     | 400mA         | 0.58Ω                 | 25       | 25MHz            | 80MHz                           | New |
| LQB18NNR47M10□ | 470nH ±20% | 25MHz                     | 400mA         | 0.58Ω                 | 25       | 25MHz            | 80MHz                           | New |
| LQB18NNR47N10□ | 470nH ±30% | 25MHz                     | 400mA         | 0.58Ω                 | 25       | 25MHz            | 80MHz                           | New |
| LQB18NNR56J10□ | 560nH ±5%  | 25MHz                     | 300mA         | 0.85Ω                 | 25       | 25MHz            | 80MHz                           | New |
| LQB18NNR56K10□ | 560nH ±10% | 25MHz                     | 300mA         | 0.85Ω                 | 25       | 25MHz            | 80MHz                           | New |
| LQB18NNR56M10□ | 560nH ±20% | 25MHz                     | 300mA         | 0.85Ω                 | 25       | 25MHz            | 80MHz                           | New |
| LQB18NNR56N10□ | 560nH ±30% | 25MHz                     | 300mA         | 0.85Ω                 | 25       | 25MHz            | 80MHz                           | New |

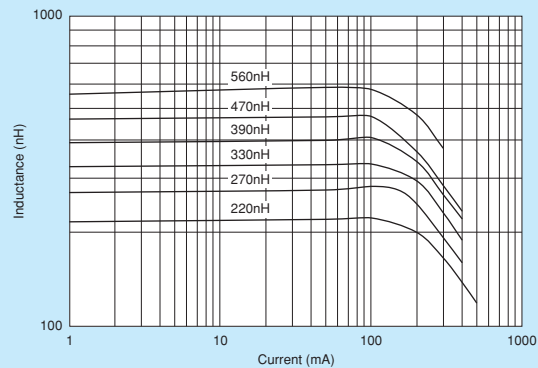
Class of Magnetic Shield: Magnetic shield of ferrite  
 Operating Temperature Range: -55°C~+125°C

Continued on the following page.

## ■ Q-Frequency Characteristics (Typ.)



## ■ Inductance-Current Characteristics (Typ.)

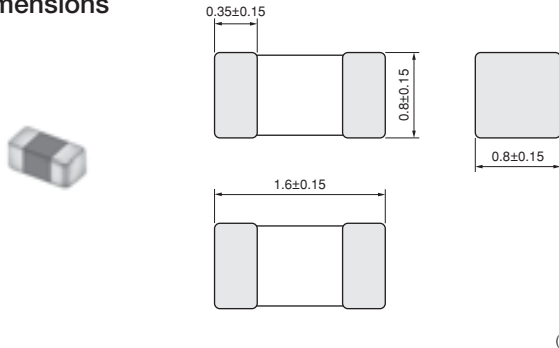


# LQM18NN\_00

Series 0603/1608 (inch/mm)

Size Code 0603 (1608) in inch (in mm)

## ■ Appearance/Dimensions



## ■ Packaging

| Code | Packaging           | Minimum Quantity |
|------|---------------------|------------------|
| D    | ø180mm Paper Taping | 4000             |
| J    | ø330mm Paper Taping | 10000            |
| B    | Packing in Bulk     | 1000             |



Refer to pages 137 to 140 for mounting information.

## ■ Rated Value (□: packaging code)

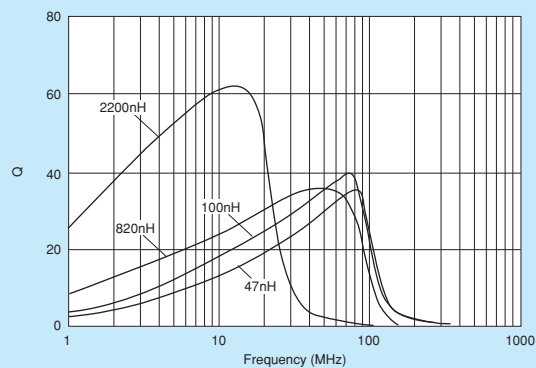
| Part Number    | Inductance        | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |     |
|----------------|-------------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|-----|
| LQM18NN47NM00□ | 47nH $\pm 20\%$   | 50MHz                     | 50mA          | 0.30 $\Omega$         | 10       | 50MHz            | 260MHz                          | Kit |
| LQM18NN68NM00□ | 68nH $\pm 20\%$   | 50MHz                     | 50mA          | 0.30 $\Omega$         | 10       | 50MHz            | 250MHz                          | Kit |
| LQM18NN82NM00□ | 82nH $\pm 20\%$   | 50MHz                     | 50mA          | 0.30 $\Omega$         | 10       | 50MHz            | 245MHz                          | Kit |
| LQM18NNR10K00□ | 100nH $\pm 10\%$  | 25MHz                     | 50mA          | 0.50 $\Omega$         | 15       | 25MHz            | 240MHz                          | Kit |
| LQM18NNR12K00□ | 120nH $\pm 10\%$  | 25MHz                     | 50mA          | 0.50 $\Omega$         | 15       | 25MHz            | 205MHz                          | Kit |
| LQM18NNR15K00□ | 150nH $\pm 10\%$  | 25MHz                     | 50mA          | 0.60 $\Omega$         | 15       | 25MHz            | 180MHz                          | Kit |
| LQM18NNR18K00□ | 180nH $\pm 10\%$  | 25MHz                     | 50mA          | 0.60 $\Omega$         | 15       | 25MHz            | 165MHz                          | Kit |
| LQM18NNR22K00□ | 220nH $\pm 10\%$  | 25MHz                     | 50mA          | 0.80 $\Omega$         | 15       | 25MHz            | 150MHz                          | Kit |
| LQM18NNR27K00□ | 270nH $\pm 10\%$  | 25MHz                     | 50mA          | 0.80 $\Omega$         | 15       | 25MHz            | 136MHz                          | Kit |
| LQM18NNR33K00□ | 330nH $\pm 10\%$  | 25MHz                     | 35mA          | 0.85 $\Omega$         | 15       | 25MHz            | 125MHz                          | Kit |
| LQM18NNR39K00□ | 390nH $\pm 10\%$  | 25MHz                     | 35mA          | 1.00 $\Omega$         | 15       | 25MHz            | 110MHz                          | Kit |
| LQM18NNR47K00□ | 470nH $\pm 10\%$  | 25MHz                     | 35mA          | 1.35 $\Omega$         | 15       | 25MHz            | 105MHz                          | Kit |
| LQM18NNR56K00□ | 560nH $\pm 10\%$  | 25MHz                     | 35mA          | 1.55 $\Omega$         | 15       | 25MHz            | 95MHz                           | Kit |
| LQM18NNR68K00□ | 680nH $\pm 10\%$  | 25MHz                     | 35mA          | 1.70 $\Omega$         | 15       | 25MHz            | 90MHz                           | Kit |
| LQM18NNR82K00□ | 820nH $\pm 10\%$  | 25MHz                     | 35mA          | 2.10 $\Omega$         | 15       | 25MHz            | 85MHz                           | Kit |
| LQM18NN1R0K00□ | 1000nH $\pm 10\%$ | 10MHz                     | 25mA          | 0.60 $\Omega$         | 35       | 10MHz            | 75MHz                           | Kit |
| LQM18NN1R2K00□ | 1200nH $\pm 10\%$ | 10MHz                     | 25mA          | 0.80 $\Omega$         | 35       | 10MHz            | 65MHz                           | Kit |
| LQM18NN1R5K00□ | 1500nH $\pm 10\%$ | 10MHz                     | 25mA          | 0.80 $\Omega$         | 35       | 10MHz            | 60MHz                           | Kit |
| LQM18NN1R8K00□ | 1800nH $\pm 10\%$ | 10MHz                     | 25mA          | 0.95 $\Omega$         | 35       | 10MHz            | 55MHz                           | Kit |
| LQM18NN2R2K00□ | 2200nH $\pm 10\%$ | 10MHz                     | 15mA          | 1.15 $\Omega$         | 35       | 10MHz            | 50MHz                           | Kit |

Class of Magnetic Shield: Magnetic shield of ferrite

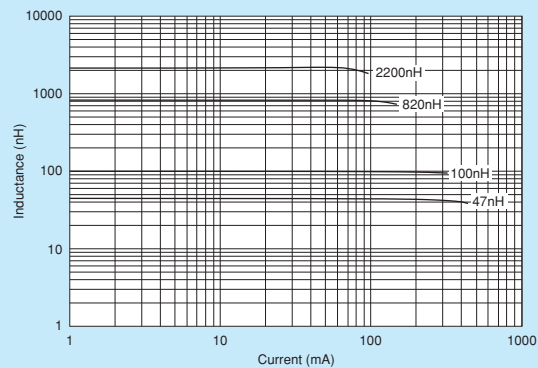
Operating Temperature Range (Self-temperature rise is not included): -40°C~+85°C

Continued on the following page.

## ■ Q-Frequency Characteristics (Typ.)



## ■ Inductance-Current Characteristics (Typ.)

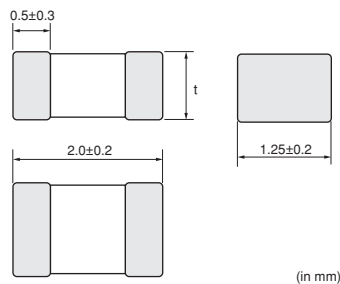


# LQM21NN\_10

Series 0805/2012 (inch/mm)

Size Code 0805 (2012) in inch (in mm)

## ■ Appearance/Dimensions



(in mm)

|                |                          |          |
|----------------|--------------------------|----------|
| Dimension of t | Inductance: 0.1 to 2.2μH | 0.85±0.2 |
|                | Inductance: 2.7 to 4.7μH | 1.25±0.2 |

## ■ Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| D    | ø180mm Paper Taping    | 4000             |
| L    | ø180mm Embossed Taping | 3000             |
| J    | ø330mm Paper Taping    | 10000            |
| K    | ø330mm Embossed Taping | 10000            |
| B    | Packing in Bulk        | 1000             |



Refer to pages 137 to 140 for mounting information.

## ■ Rated Value (□: packaging code)

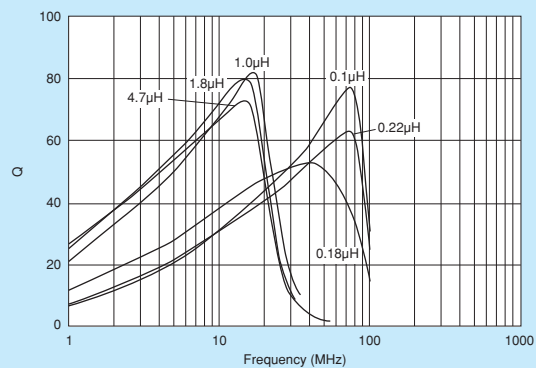
| Part Number    | Inductance  | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |     |
|----------------|-------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|-----|
| LQM21NNR10K10□ | 0.1μH ±10%  | 25MHz                     | 250mA         | 0.26Ω                 | 20       | 25MHz            | 340MHz                          | Kit |
| LQM21NNR12K10□ | 0.12μH ±10% | 25MHz                     | 250mA         | 0.29Ω                 | 20       | 25MHz            | 310MHz                          | Kit |
| LQM21NNR15K10□ | 0.15μH ±10% | 25MHz                     | 250mA         | 0.32Ω                 | 20       | 25MHz            | 270MHz                          | Kit |
| LQM21NNR18K10□ | 0.18μH ±10% | 25MHz                     | 250mA         | 0.35Ω                 | 20       | 25MHz            | 250MHz                          | Kit |
| LQM21NNR22K10□ | 0.22μH ±10% | 25MHz                     | 250mA         | 0.38Ω                 | 20       | 25MHz            | 220MHz                          | Kit |
| LQM21NNR27K10□ | 0.27μH ±10% | 25MHz                     | 250mA         | 0.42Ω                 | 20       | 25MHz            | 200MHz                          | Kit |
| LQM21NNR33K10□ | 0.33μH ±10% | 25MHz                     | 250mA         | 0.48Ω                 | 20       | 25MHz            | 180MHz                          | Kit |
| LQM21NNR39K10□ | 0.39μH ±10% | 25MHz                     | 200mA         | 0.53Ω                 | 25       | 25MHz            | 165MHz                          | Kit |
| LQM21NNR47K10□ | 0.47μH ±10% | 25MHz                     | 200mA         | 0.57Ω                 | 25       | 25MHz            | 150MHz                          | Kit |
| LQM21NNR56K10□ | 0.56μH ±10% | 25MHz                     | 150mA         | 0.63Ω                 | 25       | 25MHz            | 140MHz                          | Kit |
| LQM21NNR68K10□ | 0.68μH ±10% | 25MHz                     | 150mA         | 0.72Ω                 | 25       | 25MHz            | 125MHz                          | Kit |
| LQM21NNR82K10□ | 0.82μH ±10% | 25MHz                     | 150mA         | 0.81Ω                 | 25       | 25MHz            | 115MHz                          | Kit |
| LQM21NN1R0K10□ | 1.0μH ±10%  | 10MHz                     | 50mA          | 0.40Ω                 | 45       | 10MHz            | 107MHz                          | Kit |
| LQM21NN1R2K10□ | 1.2μH ±10%  | 10MHz                     | 50mA          | 0.47Ω                 | 45       | 10MHz            | 97MHz                           | Kit |
| LQM21NN1R5K10□ | 1.5μH ±10%  | 10MHz                     | 50mA          | 0.50Ω                 | 45       | 10MHz            | 87MHz                           | Kit |
| LQM21NN1R8K10□ | 1.8μH ±10%  | 10MHz                     | 50mA          | 0.57Ω                 | 45       | 10MHz            | 80MHz                           | Kit |
| LQM21NN2R2K10□ | 2.2μH ±10%  | 10MHz                     | 30mA          | 0.63Ω                 | 45       | 10MHz            | 71MHz                           | Kit |
| LQM21NN2R7K10□ | 2.7μH ±10%  | 10MHz                     | 30mA          | 0.69Ω                 | 45       | 10MHz            | 66MHz                           | Kit |
| LQM21NN3R3K10□ | 3.3μH ±10%  | 10MHz                     | 30mA          | 0.80Ω                 | 45       | 10MHz            | 59MHz                           | Kit |
| LQM21NN3R9K10□ | 3.9μH ±10%  | 10MHz                     | 30mA          | 0.89Ω                 | 45       | 10MHz            | 53MHz                           | Kit |
| LQM21NN4R7K10□ | 4.7μH ±10%  | 10MHz                     | 30mA          | 1.00Ω                 | 45       | 10MHz            | 47MHz                           | Kit |

Class of Magnetic Shield: Magnetic shield of ferrite

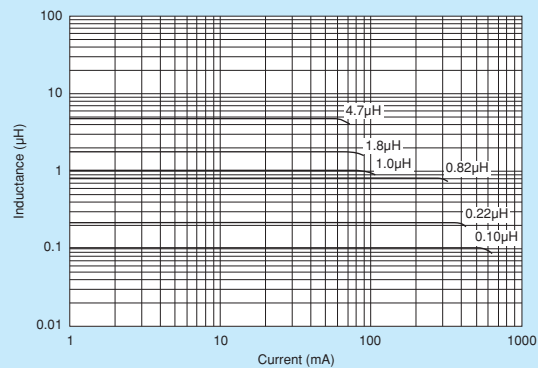
Operating Temperature Range (Self-temperature rise is not included): -40°C~+85°C

Continued on the following page.

### ■ Q-Frequency Characteristics (Typ.)



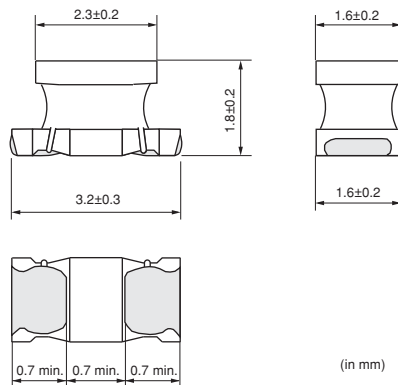
### ■ Inductance-Current Characteristics (Typ.)



# LQH31MN\_03

Series 1206/3216 (inch/mm)

Size Code 1206 (3216) in inch (in mm)

■ Appearance/  
Dimensions

(in mm)

## ■ Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| L    | ø180mm Embossed Taping | 2000             |
| K    | ø330mm Embossed Taping | 7500             |



Refer to pages 137 to 140 for mounting information.

## ■ Rated Value (□: packaging code)

| Part Number    | Inductance  | Inductance Test Frequency | Rated Current <sup>*1</sup> | DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |
|----------------|-------------|---------------------------|-----------------------------|---------------|----------|------------------|---------------------------------|
| LQH31MNR15K03□ | 0.15μH ±10% | 1MHz                      | 250mA                       | 0.39Ω ±40%    | 20       | 25.2MHz          | 250MHz                          |
| LQH31MNR22K03□ | 0.22μH ±10% | 1MHz                      | 240mA                       | 0.43Ω ±40%    | 20       | 25.2MHz          | 250MHz                          |
| LQH31MNR33K03□ | 0.33μH ±10% | 1MHz                      | 230mA                       | 0.45Ω ±40%    | 30       | 25.2MHz          | 250MHz                          |
| LQH31MNR47K03□ | 0.47μH ±10% | 1MHz                      | 215mA                       | 0.83Ω ±40%    | 30       | 25.2MHz          | 200MHz                          |
| LQH31MNR56K03□ | 0.56μH ±10% | 1MHz                      | 200mA                       | 0.61Ω ±40%    | 30       | 25.2MHz          | 180MHz                          |
| LQH31MNR68K03□ | 0.68μH ±10% | 1MHz                      | 190mA                       | 0.67Ω ±40%    | 30       | 25.2MHz          | 160MHz                          |
| LQH31MNR82K03□ | 0.82μH ±10% | 1MHz                      | 185mA                       | 0.73Ω ±40%    | 30       | 25.2MHz          | 120MHz                          |
| LQH31MN1R0K03□ | 1.0μH ±10%  | 1MHz                      | 175mA                       | 0.49Ω ±30%    | 35       | 10MHz            | 100MHz                          |
| LQH31MN1R2J03□ | 1.2μH ±5%   | 1MHz                      | 165mA                       | 0.37Ω ±30%    | 35       | 10MHz            | 90MHz                           |
| LQH31MN1R2K03□ | 1.2μH ±10%  | 1MHz                      | 165mA                       | 0.9Ω ±30%     | 35       | 10MHz            | 90MHz                           |
| LQH31MN1R5J03□ | 1.5μH ±5%   | 1MHz                      | 155mA                       | 1.0Ω ±30%     | 35       | 10MHz            | 75MHz                           |
| LQH31MN1R5K03□ | 1.5μH ±10%  | 1MHz                      | 155mA                       | 1.0Ω ±30%     | 35       | 10MHz            | 75MHz                           |
| LQH31MN1R8J03□ | 1.8μH ±5%   | 1MHz                      | 150mA                       | 1.6Ω ±30%     | 35       | 10MHz            | 60MHz                           |
| LQH31MN1R8K03□ | 1.8μH ±10%  | 1MHz                      | 150mA                       | 1.6Ω ±30%     | 35       | 10MHz            | 60MHz                           |
| LQH31MN2R2J03□ | 2.2μH ±5%   | 1MHz                      | 140mA                       | 0.7Ω ±30%     | 35       | 10MHz            | 50MHz                           |
| LQH31MN2R2K03□ | 2.2μH ±10%  | 1MHz                      | 140mA                       | 0.7Ω ±30%     | 35       | 10MHz            | 50MHz                           |
| LQH31MN2R7J03□ | 2.7μH ±5%   | 1MHz                      | 135mA                       | 0.55Ω ±30%    | 35       | 10MHz            | 43MHz                           |
| LQH31MN2R7K03□ | 2.7μH ±10%  | 1MHz                      | 135mA                       | 0.55Ω ±30%    | 35       | 10MHz            | 43MHz                           |
| LQH31MN3R3J03□ | 3.3μH ±5%   | 1MHz                      | 130mA                       | 0.61Ω ±30%    | 35       | 8MHz             | 38MHz                           |
| LQH31MN3R3K03□ | 3.3μH ±10%  | 1MHz                      | 130mA                       | 0.61Ω ±30%    | 35       | 8MHz             | 38MHz                           |
| LQH31MN3R9J03□ | 3.9μH ±5%   | 1MHz                      | 125mA                       | 1.5Ω ±30%     | 35       | 8MHz             | 35MHz                           |
| LQH31MN3R9K03□ | 3.9μH ±10%  | 1MHz                      | 125mA                       | 1.5Ω ±30%     | 35       | 8MHz             | 35MHz                           |
| LQH31MN4R7J03□ | 4.7μH ±5%   | 1MHz                      | 120mA                       | 1.7Ω ±30%     | 35       | 8MHz             | 31MHz                           |
| LQH31MN4R7K03□ | 4.7μH ±10%  | 1MHz                      | 120mA                       | 1.7Ω ±30%     | 35       | 8MHz             | 31MHz                           |
| LQH31MN5R6J03□ | 5.6μH ±5%   | 1MHz                      | 115mA                       | 1.8Ω ±30%     | 35       | 8MHz             | 28MHz                           |
| LQH31MN5R6K03□ | 5.6μH ±10%  | 1MHz                      | 115mA                       | 1.8Ω ±30%     | 35       | 8MHz             | 28MHz                           |
| LQH31MN6R8J03□ | 6.8μH ±5%   | 1MHz                      | 110mA                       | 2.0Ω ±30%     | 35       | 8MHz             | 25MHz                           |
| LQH31MN6R8K03□ | 6.8μH ±10%  | 1MHz                      | 110mA                       | 2.0Ω ±30%     | 35       | 8MHz             | 25MHz                           |
| LQH31MN8R2J03□ | 8.2μH ±5%   | 1MHz                      | 105mA                       | 2.2Ω ±30%     | 35       | 8MHz             | 23MHz                           |
| LQH31MN8R2K03□ | 8.2μH ±10%  | 1MHz                      | 105mA                       | 2.2Ω ±30%     | 35       | 8MHz             | 23MHz                           |
| LQH31MN100J03□ | 10μH ±5%    | 1MHz                      | 100mA                       | 2.5Ω ±30%     | 35       | 5MHz             | 20MHz                           |
| LQH31MN100K03□ | 10μH ±10%   | 1MHz                      | 100mA                       | 2.5Ω ±30%     | 35       | 5MHz             | 20MHz                           |

Class of Magnetic Shield: No magnetic shield

Operating Temperature Range (Self-temperature rise is not included): -40°C~+85°C

<sup>\*1</sup> When applied rated current to the products, self-temperature rise shall be limited to 20°C max. and inductance will be within ±10% of initial inductance value.

Continued on the following page.

△Note • Please read rating and △CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.  
 • This catalog has only typical specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

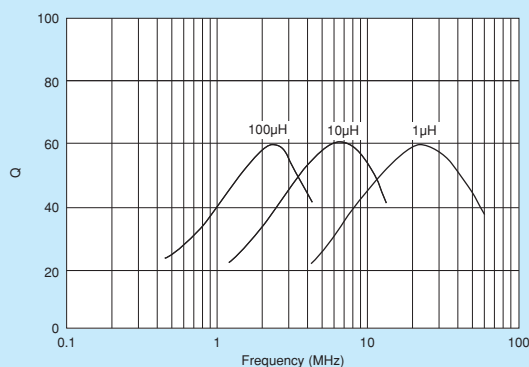
| Part Number    | Inductance | Inductance Test Frequency | Rated Current <sup>*1</sup> | DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |
|----------------|------------|---------------------------|-----------------------------|---------------|----------|------------------|---------------------------------|
| LQH31MN120J03□ | 12μH ±5%   | 1MHz                      | 95mA                        | 2.7Ω ±30%     | 35       | 5MHz             | 18MHz                           |
| LQH31MN120K03□ | 12μH ±10%  | 1MHz                      | 95mA                        | 2.7Ω ±30%     | 35       | 5MHz             | 18MHz                           |
| LQH31MN150J03□ | 15μH ±5%   | 1MHz                      | 90mA                        | 3.0Ω ±30%     | 35       | 5MHz             | 16MHz                           |
| LQH31MN150K03□ | 15μH ±10%  | 1MHz                      | 90mA                        | 3.0Ω ±30%     | 35       | 5MHz             | 16MHz                           |
| LQH31MN180J03□ | 18μH ±5%   | 1MHz                      | 85mA                        | 3.4Ω ±30%     | 35       | 5MHz             | 15MHz                           |
| LQH31MN180K03□ | 18μH ±10%  | 1MHz                      | 85mA                        | 3.4Ω ±30%     | 35       | 5MHz             | 15MHz                           |
| LQH31MN220J03□ | 22μH ±5%   | 1MHz                      | 85mA                        | 3.1Ω ±30%     | 40       | 2.5MHz           | 14MHz                           |
| LQH31MN220K03□ | 22μH ±10%  | 1MHz                      | 85mA                        | 3.1Ω ±30%     | 40       | 2.5MHz           | 14MHz                           |
| LQH31MN270J03□ | 27μH ±5%   | 1MHz                      | 85mA                        | 3.4Ω ±30%     | 40       | 2.5MHz           | 13MHz                           |
| LQH31MN270K03□ | 27μH ±10%  | 1MHz                      | 85mA                        | 3.4Ω ±30%     | 40       | 2.5MHz           | 13MHz                           |
| LQH31MN330J03□ | 33μH ±5%   | 1MHz                      | 80mA                        | 3.8Ω ±30%     | 40       | 2.5MHz           | 12MHz                           |
| LQH31MN330K03□ | 33μH ±10%  | 1MHz                      | 80mA                        | 3.8Ω ±30%     | 40       | 2.5MHz           | 12MHz                           |
| LQH31MN390J03□ | 39μH ±5%   | 1MHz                      | 55mA                        | 7.2Ω ±30%     | 40       | 2.5MHz           | 11MHz                           |
| LQH31MN390K03□ | 39μH ±10%  | 1MHz                      | 55mA                        | 7.2Ω ±30%     | 40       | 2.5MHz           | 11MHz                           |
| LQH31MN470J03□ | 47μH ±5%   | 1MHz                      | 55mA                        | 8.0Ω ±30%     | 40       | 2.5MHz           | 10MHz                           |
| LQH31MN470K03□ | 47μH ±10%  | 1MHz                      | 55mA                        | 8.0Ω ±30%     | 40       | 2.5MHz           | 10MHz                           |
| LQH31MN560J03□ | 56μH ±5%   | 1MHz                      | 50mA                        | 8.9Ω ±30%     | 40       | 2.5MHz           | 9MHz                            |
| LQH31MN560K03□ | 56μH ±10%  | 1MHz                      | 50mA                        | 8.9Ω ±30%     | 40       | 2.5MHz           | 9MHz                            |
| LQH31MN680J03□ | 68μH ±5%   | 1MHz                      | 50mA                        | 9.9Ω ±30%     | 40       | 2.5MHz           | 8.5MHz                          |
| LQH31MN680K03□ | 68μH ±10%  | 1MHz                      | 50mA                        | 9.9Ω ±30%     | 40       | 2.5MHz           | 8.5MHz                          |
| LQH31MN820J03□ | 82μH ±5%   | 1MHz                      | 45mA                        | 11.0Ω ±30%    | 40       | 2.5MHz           | 7.5MHz                          |
| LQH31MN820K03□ | 82μH ±10%  | 1MHz                      | 45mA                        | 11.0Ω ±30%    | 40       | 2.5MHz           | 7.5MHz                          |
| LQH31MN101J03□ | 100μH ±5%  | 1MHz                      | 45mA                        | 12.0Ω ±30%    | 40       | 2.5MHz           | 7MHz                            |
| LQH31MN101K03□ | 100μH ±10% | 1MHz                      | 45mA                        | 12.0Ω ±30%    | 40       | 2.5MHz           | 7MHz                            |

Class of Magnetic Shield: No magnetic shield

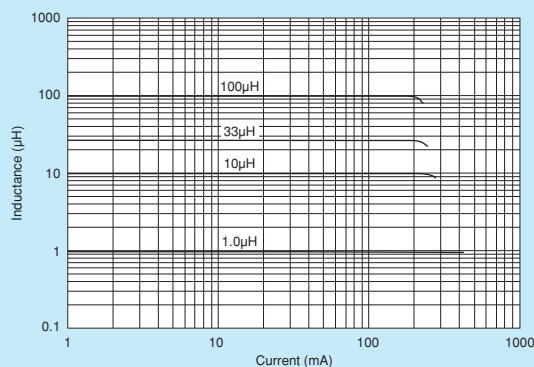
Operating Temperature Range (Self-temperature rise is not included): -40°C~+85°C

<sup>\*1</sup> When applied rated current to the products, self-temperature rise shall be limited to 20°C max. and inductance will be within ±10% of initial inductance value.

■ Q-Frequency Characteristics (Typ.)



■ Inductance-Current Characteristics (Typ.)

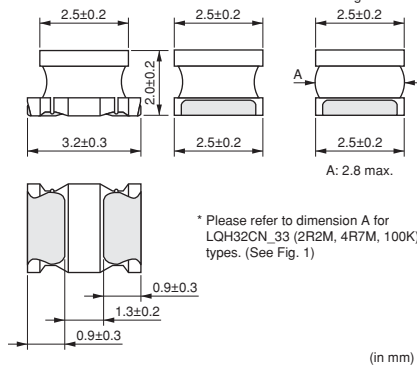


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# LQH32MN\_23 Series 1210/3225 (inch/mm)

## Size Code 1210 (3225) in inch (in mm)

## ■ Appearance/ Dimensions



\* Please refer to dimension A for LQH32CN\_33 (2R2M, 4R7M, 100K) types. (See Fig. 1)

(in mm)

## ■ Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| L    | ø180mm Embossed Taping | 2000             |
| K    | ø330mm Embossed Taping | 7500             |



Refer to pages 137 to 140 for mounting information.

■ Rated Value (□: packaging code)

| Part Number    | Inductance | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |                     |
|----------------|------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|---------------------|
| LQH32MN1R0M23□ | 1.0μH ±20% | 1MHz                      | 445mA         | 0.5Ω                  | 20       | 1MHz             | 100MHz                          | <a href="#">Kit</a> |
| LQH32MN1R2M23□ | 1.2μH ±20% | 1MHz                      | 425mA         | 0.6Ω                  | 20       | 1MHz             | 100MHz                          | <a href="#">Kit</a> |
| LQH32MN1R5K23□ | 1.5μH ±10% | 1MHz                      | 400mA         | 0.6Ω                  | 20       | 1MHz             | 75MHz                           | <a href="#">Kit</a> |
| LQH32MN1R8K23□ | 1.8μH ±10% | 1MHz                      | 390mA         | 0.7Ω                  | 20       | 1MHz             | 60MHz                           | <a href="#">Kit</a> |
| LQH32MN2R2K23□ | 2.2μH ±10% | 1MHz                      | 370mA         | 0.8Ω                  | 20       | 1MHz             | 50MHz                           | <a href="#">Kit</a> |
| LQH32MN2R7K23□ | 2.7μH ±10% | 1MHz                      | 320mA         | 0.9Ω                  | 20       | 1MHz             | 43MHz                           | <a href="#">Kit</a> |
| LQH32MN3R3K23□ | 3.3μH ±10% | 1MHz                      | 300mA         | 1.0Ω                  | 20       | 1MHz             | 38MHz                           | <a href="#">Kit</a> |
| LQH32MN3R9K23□ | 3.9μH ±10% | 1MHz                      | 290mA         | 1.1Ω                  | 20       | 1MHz             | 35MHz                           | <a href="#">Kit</a> |
| LQH32MN4R7K23□ | 4.7μH ±10% | 1MHz                      | 270mA         | 1.2Ω                  | 20       | 1MHz             | 31MHz                           | <a href="#">Kit</a> |
| LQH32MN5R6K23□ | 5.6μH ±10% | 1MHz                      | 250mA         | 1.3Ω                  | 20       | 1MHz             | 28MHz                           | <a href="#">Kit</a> |
| LQH32MN6R8K23□ | 6.8μH ±10% | 1MHz                      | 240mA         | 1.5Ω                  | 20       | 1MHz             | 25MHz                           | <a href="#">Kit</a> |
| LQH32MN8R2K23□ | 8.2μH ±10% | 1MHz                      | 225mA         | 1.6Ω                  | 20       | 1MHz             | 23MHz                           | <a href="#">Kit</a> |
| LQH32MN100J23□ | 10μH ±5%   | 1MHz                      | 190mA         | 1.8Ω                  | 35       | 1MHz             | 20MHz                           |                     |
| LQH32MN100K23□ | 10μH ±10%  | 1MHz                      | 190mA         | 1.8Ω                  | 35       | 1MHz             | 20MHz                           | <a href="#">Kit</a> |
| LQH32MN120J23□ | 12μH ±5%   | 1MHz                      | 180mA         | 2.0Ω                  | 35       | 1MHz             | 18MHz                           |                     |
| LQH32MN120K23□ | 12μH ±10%  | 1MHz                      | 180mA         | 2.0Ω                  | 35       | 1MHz             | 18MHz                           | <a href="#">Kit</a> |
| LQH32MN150J23□ | 15μH ±5%   | 1MHz                      | 170mA         | 2.2Ω                  | 35       | 1MHz             | 16MHz                           |                     |
| LQH32MN150K23□ | 15μH ±10%  | 1MHz                      | 170mA         | 2.2Ω                  | 35       | 1MHz             | 16MHz                           | <a href="#">Kit</a> |
| LQH32MN180J23□ | 18μH ±5%   | 1MHz                      | 165mA         | 2.5Ω                  | 35       | 1MHz             | 15MHz                           |                     |
| LQH32MN180K23□ | 18μH ±10%  | 1MHz                      | 165mA         | 2.5Ω                  | 35       | 1MHz             | 15MHz                           | <a href="#">Kit</a> |
| LQH32MN220J23□ | 22μH ±5%   | 1MHz                      | 150mA         | 2.8Ω                  | 35       | 1MHz             | 14MHz                           |                     |
| LQH32MN220K23□ | 22μH ±10%  | 1MHz                      | 150mA         | 2.8Ω                  | 35       | 1MHz             | 14MHz                           | <a href="#">Kit</a> |
| LQH32MN270J23□ | 27μH ±5%   | 1MHz                      | 125mA         | 3.1Ω                  | 35       | 1MHz             | 13MHz                           |                     |
| LQH32MN270K23□ | 27μH ±10%  | 1MHz                      | 125mA         | 3.1Ω                  | 35       | 1MHz             | 13MHz                           | <a href="#">Kit</a> |
| LQH32MN330J23□ | 33μH ±5%   | 1MHz                      | 115mA         | 3.5Ω                  | 40       | 1MHz             | 12MHz                           |                     |
| LQH32MN330K23□ | 33μH ±10%  | 1MHz                      | 115mA         | 3.5Ω                  | 40       | 1MHz             | 12MHz                           | <a href="#">Kit</a> |
| LQH32MN390J23□ | 39μH ±5%   | 1MHz                      | 110mA         | 3.9Ω                  | 40       | 1MHz             | 11MHz                           |                     |
| LQH32MN390K23□ | 39μH ±10%  | 1MHz                      | 110mA         | 3.9Ω                  | 40       | 1MHz             | 11MHz                           | <a href="#">Kit</a> |
| LQH32MN470J23□ | 47μH ±5%   | 1MHz                      | 100mA         | 4.3Ω                  | 40       | 1MHz             | 11MHz                           |                     |
| LQH32MN470K23□ | 47μH ±10%  | 1MHz                      | 100mA         | 4.3Ω                  | 40       | 1MHz             | 11MHz                           | <a href="#">Kit</a> |
| LQH32MN560J23□ | 56μH ±5%   | 1MHz                      | 85mA          | 4.9Ω                  | 40       | 1MHz             | 10MHz                           |                     |
| LQH32MN560K23□ | 56μH ±10%  | 1MHz                      | 85mA          | 4.9Ω                  | 40       | 1MHz             | 10MHz                           | <a href="#">Kit</a> |

Class of Magnetic Shield: No magnetic shield

Operating Temperature Range (Self-temperature rise is not included): -40°C~+85°C

Continued on the following page. 

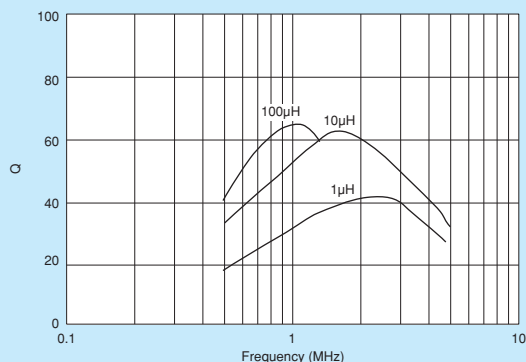
**Note** • Please read rating and **CAUTION** (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.  
• This catalog has only typical specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

| Part Number    | Inductance | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |     |
|----------------|------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|-----|
| LQH32MN680J23□ | 68μH ±5%   | 1MHz                      | 80mA          | 5.5Ω                  | 40       | 1MHz             | 9MHz                            |     |
| LQH32MN680K23□ | 68μH ±10%  | 1MHz                      | 80mA          | 5.5Ω                  | 40       | 1MHz             | 9MHz                            | Kit |
| LQH32MN820J23□ | 82μH ±5%   | 1MHz                      | 70mA          | 6.2Ω                  | 40       | 1MHz             | 8.5MHz                          |     |
| LQH32MN820K23□ | 82μH ±10%  | 1MHz                      | 70mA          | 6.2Ω                  | 40       | 1MHz             | 8.5MHz                          | Kit |
| LQH32MN101J23□ | 100μH ±5%  | 1MHz                      | 80mA          | 7.0Ω                  | 40       | 796kHz           | 8MHz                            |     |
| LQH32MN101K23□ | 100μH ±10% | 1MHz                      | 80mA          | 7.0Ω                  | 40       | 796kHz           | 8MHz                            | Kit |
| LQH32MN121J23□ | 120μH ±5%  | 1MHz                      | 75mA          | 8.0Ω                  | 40       | 796kHz           | 7.5MHz                          |     |
| LQH32MN121K23□ | 120μH ±10% | 1MHz                      | 75mA          | 8.0Ω                  | 40       | 796kHz           | 7.5MHz                          | Kit |
| LQH32MN151J23□ | 150μH ±5%  | 1MHz                      | 70mA          | 9.3Ω                  | 40       | 796kHz           | 7MHz                            |     |
| LQH32MN151K23□ | 150μH ±10% | 1MHz                      | 70mA          | 9.3Ω                  | 40       | 796kHz           | 7MHz                            | Kit |
| LQH32MN181J23□ | 180μH ±5%  | 1MHz                      | 65mA          | 10.2Ω                 | 40       | 796kHz           | 6MHz                            |     |
| LQH32MN181K23□ | 180μH ±10% | 1MHz                      | 65mA          | 10.2Ω                 | 40       | 796kHz           | 6MHz                            | Kit |
| LQH32MN221J23□ | 220μH ±5%  | 1MHz                      | 65mA          | 11.8Ω                 | 40       | 796kHz           | 5.5MHz                          |     |
| LQH32MN221K23□ | 220μH ±10% | 1MHz                      | 65mA          | 11.8Ω                 | 40       | 796kHz           | 5.5MHz                          | Kit |
| LQH32MN271J23□ | 270μH ±5%  | 1MHz                      | 65mA          | 12.5Ω                 | 40       | 796kHz           | 5MHz                            |     |
| LQH32MN271K23□ | 270μH ±10% | 1MHz                      | 65mA          | 12.5Ω                 | 40       | 796kHz           | 5MHz                            | Kit |
| LQH32MN331J23□ | 330μH ±5%  | 1MHz                      | 65mA          | 13.0Ω                 | 40       | 796kHz           | 5MHz                            |     |
| LQH32MN331K23□ | 330μH ±10% | 1MHz                      | 65mA          | 13.0Ω                 | 40       | 796kHz           | 5MHz                            | Kit |
| LQH32MN391J23□ | 390μH ±5%  | 1MHz                      | 50mA          | 22.0Ω                 | 50       | 796kHz           | 5MHz                            |     |
| LQH32MN391K23□ | 390μH ±10% | 1MHz                      | 50mA          | 22.0Ω                 | 50       | 796kHz           | 5MHz                            | Kit |
| LQH32MN471J23□ | 470μH ±5%  | 1kHz                      | 45mA          | 25.0Ω                 | 50       | 796kHz           | 5MHz                            |     |
| LQH32MN471K23□ | 470μH ±10% | 1kHz                      | 45mA          | 25.0Ω                 | 50       | 796kHz           | 5MHz                            | Kit |
| LQH32MN561J23□ | 560μH ±5%  | 1kHz                      | 40mA          | 28.0Ω                 | 50       | 796kHz           | 5MHz                            |     |
| LQH32MN561K23□ | 560μH ±10% | 1kHz                      | 40mA          | 28.0Ω                 | 50       | 796kHz           | 5MHz                            | Kit |

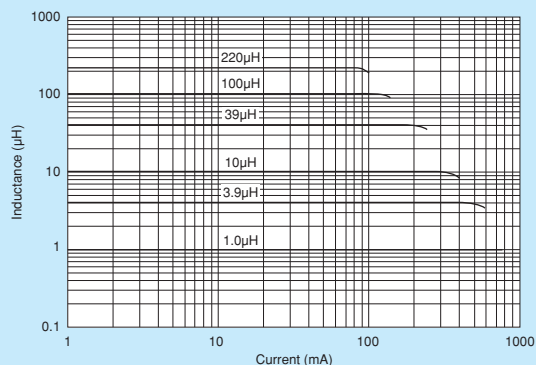
Class of Magnetic Shield: No magnetic shield

Operating Temperature Range (Self-temperature rise is not included): -40°C~+85°C

■ Q-Frequency Characteristics (Typ.)



■ Inductance-Current Characteristics (Typ.)

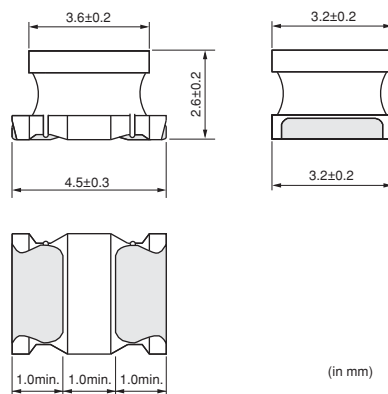


⚠Note • Please read rating and ⚠CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.  
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# LQH43MN\_03/LQH43NN\_03

Series 1812/4532 (inch/mm)

Size Code 1812 (4532) in inch (in mm)

■ Appearance/  
Dimensions

## ■ Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| L    | ø180mm Embossed Taping | 500              |
| K    | ø330mm Embossed Taping | 2500             |



Refer to pages 137 to 140 for mounting information.

## ■ Rated Value (□: packaging code)

| Part Number    | Inductance | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |     |
|----------------|------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|-----|
| LQH43MN1R0M03□ | 1.0μH ±20% | 1MHz                      | 500mA         | 0.20Ω                 | 20       | 1MHz             | 120MHz                          | Kit |
| LQH43MN1R2M03□ | 1.2μH ±20% | 1MHz                      | 500mA         | 0.20Ω                 | 20       | 1MHz             | 100MHz                          | Kit |
| LQH43MN1R5M03□ | 1.5μH ±20% | 1MHz                      | 500mA         | 0.30Ω                 | 20       | 1MHz             | 85MHz                           | Kit |
| LQH43MN1R8M03□ | 1.8μH ±20% | 1MHz                      | 500mA         | 0.30Ω                 | 20       | 1MHz             | 75MHz                           | Kit |
| LQH43MN2R2M03□ | 2.2μH ±20% | 1MHz                      | 500mA         | 0.30Ω                 | 20       | 1MHz             | 62MHz                           | Kit |
| LQH43MN2R7M03□ | 2.7μH ±20% | 1MHz                      | 500mA         | 0.32Ω                 | 20       | 1MHz             | 53MHz                           | Kit |
| LQH43MN3R3M03□ | 3.3μH ±20% | 1MHz                      | 500mA         | 0.35Ω                 | 20       | 1MHz             | 47MHz                           | Kit |
| LQH43MN3R9M03□ | 3.9μH ±20% | 1MHz                      | 500mA         | 0.38Ω                 | 20       | 1MHz             | 41MHz                           | Kit |
| LQH43MN4R7K03□ | 4.7μH ±10% | 1MHz                      | 500mA         | 0.40Ω                 | 30       | 1MHz             | 38MHz                           | Kit |
| LQH43MN5R6K03□ | 5.6μH ±10% | 1MHz                      | 500mA         | 0.47Ω                 | 30       | 1MHz             | 33MHz                           | Kit |
| LQH43MN6R8K03□ | 6.8μH ±10% | 1MHz                      | 450mA         | 0.50Ω                 | 30       | 1MHz             | 31MHz                           | Kit |
| LQH43MN8R2K03□ | 8.2μH ±10% | 1MHz                      | 450mA         | 0.56Ω                 | 30       | 1MHz             | 27MHz                           | Kit |
| LQH43MN100J03□ | 10μH ±5%   | 1MHz                      | 400mA         | 0.56Ω                 | 35       | 1MHz             | 23MHz                           |     |
| LQH43MN100K03□ | 10μH ±10%  | 1MHz                      | 400mA         | 0.56Ω                 | 35       | 1MHz             | 23MHz                           | Kit |
| LQH43MN120J03□ | 12μH ±5%   | 1MHz                      | 380mA         | 0.62Ω                 | 35       | 1MHz             | 21MHz                           |     |
| LQH43MN120K03□ | 12μH ±10%  | 1MHz                      | 380mA         | 0.62Ω                 | 35       | 1MHz             | 21MHz                           | Kit |
| LQH43MN150J03□ | 15μH ±5%   | 1MHz                      | 360mA         | 0.73Ω                 | 35       | 1MHz             | 19MHz                           |     |
| LQH43MN150K03□ | 15μH ±10%  | 1MHz                      | 360mA         | 0.73Ω                 | 35       | 1MHz             | 19MHz                           | Kit |
| LQH43MN180J03□ | 18μH ±5%   | 1MHz                      | 340mA         | 0.82Ω                 | 35       | 1MHz             | 17MHz                           |     |
| LQH43MN180K03□ | 18μH ±10%  | 1MHz                      | 340mA         | 0.82Ω                 | 35       | 1MHz             | 17MHz                           | Kit |
| LQH43MN220J03□ | 22μH ±5%   | 1MHz                      | 320mA         | 0.94Ω                 | 35       | 1MHz             | 15MHz                           |     |
| LQH43MN220K03□ | 22μH ±10%  | 1MHz                      | 320mA         | 0.94Ω                 | 35       | 1MHz             | 15MHz                           | Kit |
| LQH43MN270J03□ | 27μH ±5%   | 1MHz                      | 300mA         | 1.1Ω                  | 35       | 1MHz             | 14MHz                           |     |
| LQH43MN270K03□ | 27μH ±10%  | 1MHz                      | 300mA         | 1.1Ω                  | 35       | 1MHz             | 14MHz                           | Kit |
| LQH43MN330J03□ | 33μH ±5%   | 1MHz                      | 270mA         | 1.2Ω                  | 35       | 1MHz             | 12MHz                           |     |
| LQH43MN330K03□ | 33μH ±10%  | 1MHz                      | 270mA         | 1.2Ω                  | 35       | 1MHz             | 12MHz                           | Kit |
| LQH43MN390J03□ | 39μH ±5%   | 1MHz                      | 240mA         | 1.4Ω                  | 35       | 1MHz             | 11MHz                           |     |
| LQH43MN390K03□ | 39μH ±10%  | 1MHz                      | 240mA         | 1.4Ω                  | 35       | 1MHz             | 11MHz                           | Kit |
| LQH43MN470J03□ | 47μH ±5%   | 1MHz                      | 220mA         | 1.5Ω                  | 35       | 1MHz             | 10MHz                           |     |
| LQH43MN470K03□ | 47μH ±10%  | 1MHz                      | 220mA         | 1.5Ω                  | 35       | 1MHz             | 10MHz                           | Kit |
| LQH43MN560J03□ | 56μH ±5%   | 1MHz                      | 200mA         | 1.7Ω                  | 35       | 1MHz             | 9.3MHz                          |     |
| LQH43MN560K03□ | 56μH ±10%  | 1MHz                      | 200mA         | 1.7Ω                  | 35       | 1MHz             | 9.3MHz                          | Kit |

Class of Magnetic Shield: No magnetic shield

Operating Temperature Range (Self-temperature rise is not included): -40°C~+85°C

Continued on the following page.

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• This catalog has only typical specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

| Part Number    | Inductance  | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |     |
|----------------|-------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|-----|
| LQH43MN680J03□ | 68μH ±5%    | 1MHz                      | 180mA         | 1.9Ω                  | 35       | 1MHz             | 8.4MHz                          |     |
| LQH43MN680K03□ | 68μH ±10%   | 1MHz                      | 180mA         | 1.9Ω                  | 35       | 1MHz             | 8.4MHz                          | Kit |
| LQH43MN820J03□ | 82μH ±5%    | 1MHz                      | 170mA         | 2.2Ω                  | 35       | 1MHz             | 7.5MHz                          |     |
| LQH43MN820K03□ | 82μH ±10%   | 1MHz                      | 170mA         | 2.2Ω                  | 35       | 1MHz             | 7.5MHz                          | Kit |
| LQH43MN101J03□ | 100μH ±5%   | 1MHz                      | 160mA         | 2.5Ω                  | 40       | 796kHz           | 6.8MHz                          |     |
| LQH43MN101K03□ | 100μH ±10%  | 1MHz                      | 160mA         | 2.5Ω                  | 40       | 796kHz           | 6.8MHz                          | Kit |
| LQH43MN121J03□ | 120μH ±5%   | 1MHz                      | 150mA         | 3.0Ω                  | 40       | 796kHz           | 6.2MHz                          |     |
| LQH43MN121K03□ | 120μH ±10%  | 1MHz                      | 150mA         | 3.0Ω                  | 40       | 796kHz           | 6.2MHz                          | Kit |
| LQH43MN151J03□ | 150μH ±5%   | 1MHz                      | 130mA         | 3.7Ω                  | 40       | 796kHz           | 5.5MHz                          |     |
| LQH43MN151K03□ | 150μH ±10%  | 1MHz                      | 130mA         | 3.7Ω                  | 40       | 796kHz           | 5.5MHz                          | Kit |
| LQH43MN181J03□ | 180μH ±5%   | 1MHz                      | 120mA         | 4.5Ω                  | 40       | 796kHz           | 5.0MHz                          |     |
| LQH43MN181K03□ | 180μH ±10%  | 1MHz                      | 120mA         | 4.5Ω                  | 40       | 796kHz           | 5.0MHz                          | Kit |
| LQH43MN221J03□ | 220μH ±5%   | 1MHz                      | 110mA         | 5.4Ω                  | 40       | 796kHz           | 4.5MHz                          |     |
| LQH43MN221K03□ | 220μH ±10%  | 1MHz                      | 110mA         | 5.4Ω                  | 40       | 796kHz           | 4.5MHz                          | Kit |
| LQH43MN271J03□ | 270μH ±5%   | 1MHz                      | 100mA         | 6.8Ω                  | 40       | 796kHz           | 4.0MHz                          |     |
| LQH43MN271K03□ | 270μH ±10%  | 1MHz                      | 100mA         | 6.8Ω                  | 40       | 796kHz           | 4.0MHz                          | Kit |
| LQH43MN331J03□ | 330μH ±5%   | 1MHz                      | 95mA          | 8.2Ω                  | 40       | 796kHz           | 3.6MHz                          |     |
| LQH43MN331K03□ | 330μH ±10%  | 1MHz                      | 95mA          | 8.2Ω                  | 40       | 796kHz           | 3.6MHz                          | Kit |
| LQH43MN391J03□ | 390μH ±5%   | 1MHz                      | 90mA          | 9.7Ω                  | 40       | 796kHz           | 3.3MHz                          |     |
| LQH43MN391K03□ | 390μH ±10%  | 1MHz                      | 90mA          | 9.7Ω                  | 40       | 796kHz           | 3.3MHz                          | Kit |
| LQH43MN471J03□ | 470μH ±5%   | 1kHz                      | 80mA          | 11.8Ω                 | 40       | 796kHz           | 3.0MHz                          |     |
| LQH43MN471K03□ | 470μH ±10%  | 1kHz                      | 80mA          | 11.8Ω                 | 40       | 796kHz           | 3.0MHz                          | Kit |
| LQH43MN561J03□ | 560μH ±5%   | 1kHz                      | 70mA          | 14.5Ω                 | 40       | 796kHz           | 2.7MHz                          |     |
| LQH43MN561K03□ | 560μH ±10%  | 1kHz                      | 70mA          | 14.5Ω                 | 40       | 796kHz           | 2.7MHz                          | Kit |
| LQH43MN681J03□ | 680μH ±5%   | 1kHz                      | 65mA          | 17.0Ω                 | 40       | 796kHz           | 2.5MHz                          |     |
| LQH43MN681K03□ | 680μH ±10%  | 1kHz                      | 65mA          | 17.0Ω                 | 40       | 796kHz           | 2.5MHz                          | Kit |
| LQH43MN821J03□ | 820μH ±5%   | 1kHz                      | 60mA          | 20.5Ω                 | 40       | 796kHz           | 2.2MHz                          |     |
| LQH43MN821K03□ | 820μH ±10%  | 1kHz                      | 60mA          | 20.5Ω                 | 40       | 796kHz           | 2.2MHz                          | Kit |
| LQH43MN102J03□ | 1000μH ±5%  | 1kHz                      | 50mA          | 25.0Ω                 | 40       | 252kHz           | 2.0MHz                          |     |
| LQH43MN102K03□ | 1000μH ±10% | 1kHz                      | 50mA          | 25.0Ω                 | 40       | 252kHz           | 2.0MHz                          | Kit |
| LQH43MN122J03□ | 1200μH ±5%  | 1kHz                      | 45mA          | 30.0Ω                 | 40       | 252kHz           | 1.8MHz                          |     |
| LQH43MN122K03□ | 1200μH ±10% | 1kHz                      | 45mA          | 30.0Ω                 | 40       | 252kHz           | 1.8MHz                          | Kit |
| LQH43MN152J03□ | 1500μH ±5%  | 1kHz                      | 40mA          | 37.0Ω                 | 40       | 252kHz           | 1.6MHz                          |     |
| LQH43MN152K03□ | 1500μH ±10% | 1kHz                      | 40mA          | 37.0Ω                 | 40       | 252kHz           | 1.6MHz                          | Kit |
| LQH43NN182J03□ | 1800μH ±5%  | 1kHz                      | 35mA          | 45.0Ω                 | 40       | 252kHz           | 1.5MHz                          |     |
| LQH43NN182K03□ | 1800μH ±10% | 1kHz                      | 35mA          | 45.0Ω                 | 40       | 252kHz           | 1.5MHz                          | Kit |
| LQH43NN222J03□ | 2200μH ±5%  | 1kHz                      | 30mA          | 50.0Ω                 | 40       | 252kHz           | 1.3MHz                          |     |
| LQH43NN222K03□ | 2200μH ±10% | 1kHz                      | 30mA          | 50.0Ω                 | 40       | 252kHz           | 1.3MHz                          | Kit |

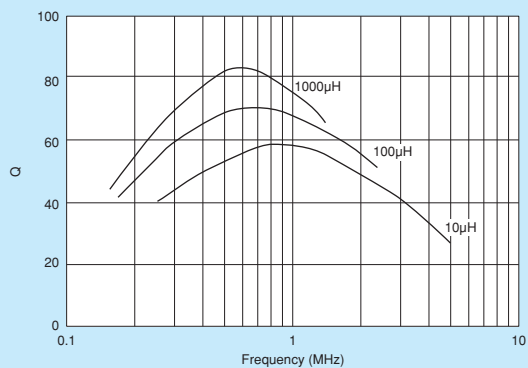
Class of Magnetic Shield: No magnetic shield

Operating Temperature Range (Self-temperature rise is not included): -40°C~+85°C

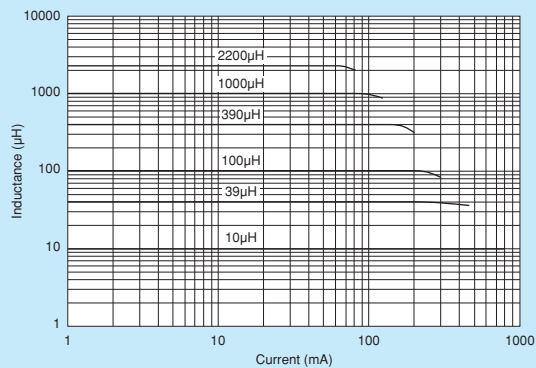
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### ■ Q-Frequency Characteristics (Typ.)



### ■ Inductance-Current Characteristics (Typ.)

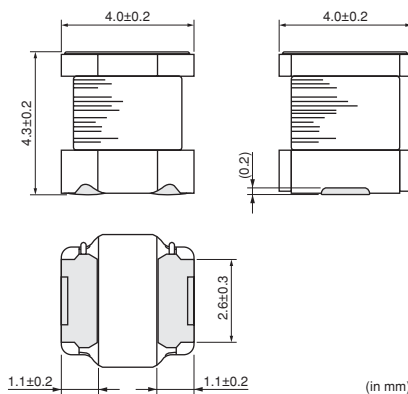


# LQH44NN\_03

Series 1515/4040 (inch/mm)

Size Code 1515 (4040) in inch (in mm), General

## ■ Appearance/Dimensions



## ■ Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| L    | ø180mm Embossed Taping | 250              |
| K    | ø330mm Embossed Taping | 1500             |



Refer to pages 137 to 140 for mounting information.

## ■ Rated Value (□: packaging code)

| Part Number    | Inductance  | Inductance Test Frequency | Rated Current <sup>*1</sup> | DC Resistance | Self-Resonance Frequency (min.) |     |
|----------------|-------------|---------------------------|-----------------------------|---------------|---------------------------------|-----|
| LQH44NNR51M03□ | 0.51μH ±20% | 1kHz                      | 4.5A                        | 0.0075Ω ±30%  | 160MHz                          | New |
| LQH44NNR74M03□ | 0.74μH ±20% | 1kHz                      | 3.5A                        | 0.011Ω ±30%   | 150MHz                          | New |
| LQH44NN1R0M03□ | 1.0μH ±20%  | 1kHz                      | 3.3A                        | 0.012Ω ±30%   | 90MHz                           | New |
| LQH44NN1R5M03□ | 1.5μH ±20%  | 1kHz                      | 3.2A                        | 0.016Ω ±30%   | 70MHz                           | New |
| LQH44NN2R2M03□ | 2.2μH ±20%  | 1kHz                      | 2.5A                        | 0.019Ω ±20%   | 55MHz                           | New |
| LQH44NN3R3M03□ | 3.3μH ±20%  | 1kHz                      | 2.25A                       | 0.024Ω ±30%   | 34.8MHz                         | New |
| LQH44NN4R7M03□ | 4.7μH ±20%  | 1kHz                      | 1.95A                       | 0.040Ω ±30%   | 23.4MHz                         | New |
| LQH44NN5R0K03□ | 5.0μH ±10%  | 1kHz                      | 1.95A                       | 0.040Ω ±30%   | 23.4MHz                         | New |
| LQH44NN6R8K03□ | 6.8μH ±10%  | 1kHz                      | 1.6A                        | 0.051Ω ±30%   | 19.8MHz                         | New |
| LQH44NN100K03□ | 10μH ±10%   | 1kHz                      | 1.3A                        | 0.067Ω ±30%   | 23.5MHz                         | New |
| LQH44NN150K03□ | 15μH ±10%   | 1kHz                      | 1.1A                        | 0.100Ω ±30%   | 11.5MHz                         | New |
| LQH44NN220K03□ | 22μH ±10%   | 1kHz                      | 0.95A                       | 0.170Ω ±30%   | 14MHz                           | New |
| LQH44NN330K03□ | 33μH ±10%   | 1kHz                      | 0.76A                       | 0.210Ω ±30%   | 12MHz                           | New |
| LQH44NN470K03□ | 47μH ±10%   | 1kHz                      | 0.64A                       | 0.330Ω ±30%   | 10MHz                           | New |
| LQH44NN680K03□ | 68μH ±10%   | 1kHz                      | 0.53A                       | 0.410Ω ±30%   | 8.0MHz                          | New |
| LQH44NN101K03□ | 100μH ±10%  | 1kHz                      | 0.3A                        | 0.540Ω ±30%   | 6.3MHz                          | New |
| LQH44NN151K03□ | 150μH ±10%  | 1kHz                      | 0.26A                       | 0.920Ω ±30%   | 5.2MHz                          | New |
| LQH44NN221K03□ | 220μH ±10%  | 1kHz                      | 0.21A                       | 1.20Ω ±30%    | 3.9MHz                          | New |
| LQH44NN331K03□ | 330μH ±10%  | 1kHz                      | 0.18A                       | 1.76Ω ±30%    | 3.0MHz                          | New |
| LQH44NN471K03□ | 470μH ±10%  | 1kHz                      | 0.145A                      | 2.23Ω ±30%    | 2.7MHz                          | New |

Class of Magnetic Shield: No magnetic shield

Operating Temperature Range (Self-temperature rise is included): -40°C~+125°C

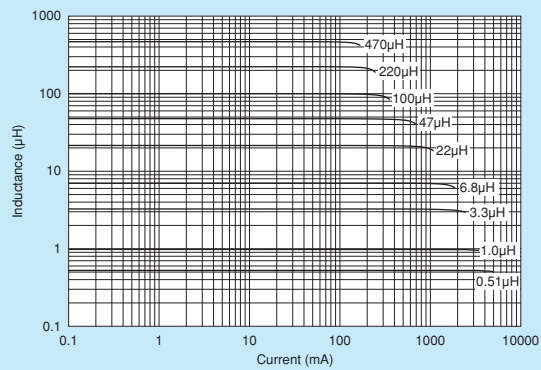
Operating Temperature Range (Self-temperature rise is not included): -40°C~+85°C

For reflow soldering only.

\*1 When applied rated current to the products, self-temperature rise shall be limited to 40°C max. and inductance will be within ±20% of initial inductance value.

Continued on the following page.

### ■ Inductance-Current Characteristics (Typ.)



## ⚠Caution

### ● Rating

#### 1. About the Rated Current

Do not use products beyond the rated current as this may create excessive heat and deteriorate the insulation resistance.

#### 2. About Excessive Surge Current

Surge current (pulse current or rush current) greater than the specified rated current applied to the product may cause a critical failure, such as an open circuit, burnout caused by excessive temperature rise.

Please contact us in advance in case of applying the surge current.

## Notice

### ● Storage and Operating Condition

#### <Operating Environment>

Do not use products in chemical atmosphere such as chlorine gas, acid or sulfide gas.

#### <Storage Requirements>

##### 1. Storage Period

LQB series and LQM series should be used within 6 months; the other products should be used within 12 months.

Check solderability if this period is exceeded.

##### 2. Storage Conditions

(1) Store products in a warehouse in compliance with the following conditions:

Temperature: -10 to +40 degrees C.

Humidity: 15 to 85% (relative humidity)

Do not subject products to rapid changes in temperature and humidity.

Do not store them in chemical atmosphere such as one containing sulfurous acid gas or alkaline gas.

This will prevent electrode oxidation, which causes poor solderability and possible corrosion of inductors.

(2) Do not store products in bulk packaging to prevent collision among inductors, which causes core chipping and wire breakage.

(3) Store products on pallets to protect from humidity, dust, etc.

(4) Avoid heat shock, vibration, direct sunlight, etc.

### ● Handling

This item is designed to have sufficient strength, but handle with care to avoid chipping or breaking its ceramic structure.

#### LQH\_M/N series

- To prevent breaking the wire, avoid touching with sharp material, such as tweezers or the bristles of a cleaning brush, to the wire wound portion of this product.
- To prevent breaking the core, avoid applying excessive mechanical shock to products mounted on the board.

#### LQB series and LQM series

- There is the possibility that magnetism may change the inductance value. Do not use a magnet or

tweezers with magnetism when handling chip inductors. (The tip of the tweezers should be molded with resin or pottery.)

- When excessive current over the rated current is applied, it may cause the inductance value to change due to magnetism.

#### <Handling>

1. Avoid applying excessive stress to products to prevent damage.
2. Do not touch wire wound with sharp objects such as tweezers to prevent wire breakage.
3. Do not apply excessive force to products mounted on boards to prevent core breakage.

#### <Transportation>

Do not apply excessive vibration or mechanical shock to products.

#### <Resin Coating>

When coating products with resin, the relatively high resin curing stress may change inductance values.

For exterior coating, select resin carefully so that electrical and mechanical performance of the product is not affected. Prior to use, please evaluate reliability with the product mounted in your application set.

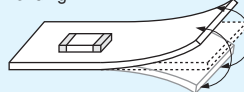
#### (LQH series)

An open circuit issue may occur by mechanical stress caused by the resin, amount/cured shape of resin, or operating conditions, etc. Some resins containing impurities or chloride may possibly generate chlorine by hydrolysis under some operating conditions, causing corrosion of the inductor wire and leading to an open circuit.

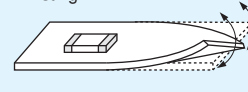
#### <Handling of a Substrate>

After mounting products on a substrate, do not apply any stress to the product caused by bending or twisting the substrate when cropping the substrate, inserting and removing a connector from the substrate, or tightening a screw to the substrate. Excessive mechanical stress may cause cracking in the Product.

Bending



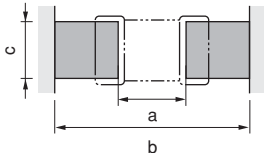
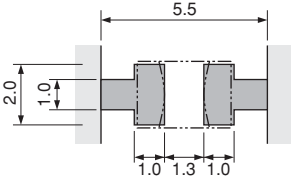
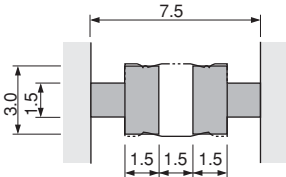
Twisting



## 1. Standard Land Pattern Dimensions

A high Q value is achieved when the PCB electrode land pattern is designed so that it does not project beyond the chip Inductors (chip coils) electrode.

Land Pattern + Solder Resist  
Land Pattern  
Solder Resist  
(in mm)

| Series                                                   | Standard Land Dimensions                                                            |             |        |     |         |     |
|----------------------------------------------------------|-------------------------------------------------------------------------------------|-------------|--------|-----|---------|-----|
| LQB15N<br>LQB18N<br>LQM18N<br>LQM21N<br>LQH31M<br>LQH44N |    | Part Number |        | a   | b       | c   |
|                                                          |                                                                                     | LQB15NN     | Reflow | 0.4 | 1.2-1.4 | 0.5 |
|                                                          |                                                                                     | LQB18N      | Flow   | 0.7 | 2.2-2.6 | 0.7 |
|                                                          |                                                                                     | LQM18N      | Reflow |     | 1.8-2.0 |     |
|                                                          |                                                                                     | LQM21N      |        | 1.2 | 3.0-4.0 | 1.0 |
|                                                          |                                                                                     | LQH31M      |        | 1.0 | 4.5     | 1.5 |
|                                                          |                                                                                     | LQH44N      |        | 1.3 | 4.4     | 3.0 |
| LQH32M                                                   |   |             |        |     |         |     |
| LQH43M<br>LQH43N                                         |  |             |        |     |         |     |

Attention should be paid to potential magnetic coupling effects when using the Inductors (coils) as a resonator.

## 2. Standard Soldering Conditions

## (1) Soldering method

Chip Inductors (Chip coils) can be flow or reflow soldered.

Please contact Murata regarding other soldering methods.

Solder: Use Sn-3.0Ag-0.5Cu solder.

Flux: Use rosin-based flux, but not strongly acidic flux (with chlorine content exceeding 0.2wt%).

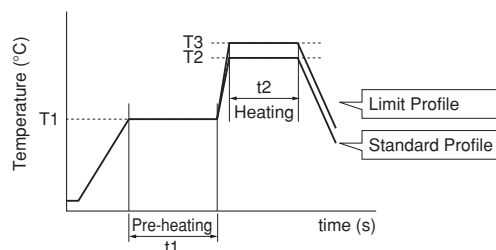
Do not use water-soluble flux.

For additional mounting methods, please contact Murata.

Continued on the following page.

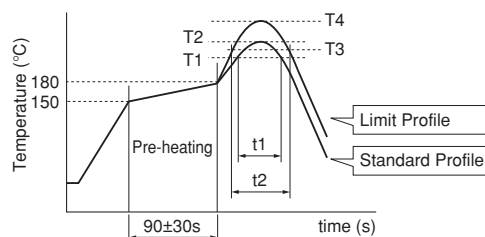
## (2) Soldering profile

- Flow Soldering profile  
(Sn-3.0Ag-0.5Cu solder)



| Series                               | Pre-heating |            | Standard Profile |            |               | Limit Profile |            |               |
|--------------------------------------|-------------|------------|------------------|------------|---------------|---------------|------------|---------------|
|                                      |             |            | Heating          |            | Cycle of flow | Heating       |            | Cycle of flow |
|                                      | Temp. (T1)  | Time. (t1) | Temp. (T2)       | Time. (t2) |               | Temp. (T3)    | Time. (t2) |               |
| LQB18N<br>LQM18N<br>LQM21N<br>LQH31M | 150°C       | 60s min.   | 250°C            | 4 to 6s    | 2 times max.  | 265±3°C       | 5s max.    | 2 times max.  |
| LQH32M<br>LQH43M(N)                  | 150°C       | 60s min.   | 250°C            | 4 to 6s    | 2 times max.  | 265±3°C       | 5s max.    | 1 times       |

- Reflow Soldering profile  
(Sn-3.0Ag-0.5Cu solder)



| Series                                                   | Standard Profile |            |                       |                 | Limit Profile |            |                       |                 |
|----------------------------------------------------------|------------------|------------|-----------------------|-----------------|---------------|------------|-----------------------|-----------------|
|                                                          | Heating          |            | Peak temperature (T2) | Cycle of reflow | Heating       |            | Peak temperature (T4) | Cycle of reflow |
|                                                          | Temp. (T1)       | Time. (t1) |                       |                 | Temp. (T3)    | Time. (t2) |                       |                 |
| LQB15N<br>LQB18N<br>LQM18N<br>LQM21N<br>LQH31M<br>LQH44N | 220°C            | 30 to 60s  | 245±3°C               | 2 times max.    | 230°C         | 60s max.   | 260°C/10s             | 2 times max.    |
| LQH32M<br>LQH43M(N)                                      | 220°C            | 30 to 60s  | 245±3°C               | 2 times max.    | 230°C         | 60s max.   | 260°C/10s             | 1 time          |

## (3) Reworking with Soldering Iron

Preheating at 150°C for 1 minute is required. Do not directly touch the ceramic element with the tip of the soldering iron. The reworking soldering conditions are as follows:

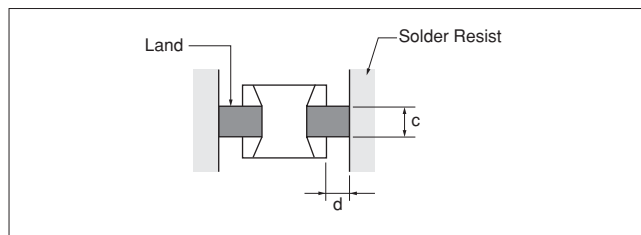
Soldering iron power output: 80W max.  
Temperature of soldering iron tip: 350°C  
Diameter of soldering iron end: 3.0mm max.  
Soldering time: within 3 s

Continued on the following page.

### 3. Mounting Instructions

#### (1) Land Pattern Dimensions

Large lands reduce Q of the mounted chip. Also, large protruding land areas (bordered by lines having dimensions 'c' and 'd' shown) cause floating and electrode leaching.



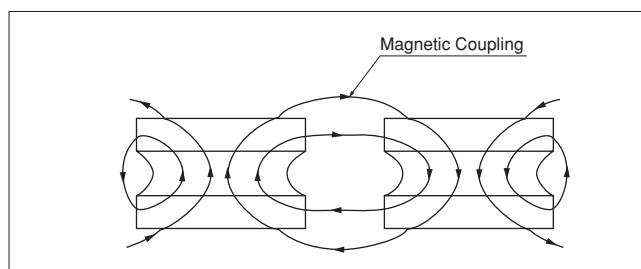
#### (2) Land Pattern Designing (LQH series)

Please follow the recommended patterns.

Otherwise, their performance, which includes electrical performance or solderability, may be affected, or result in "position shift" in the soldering process.

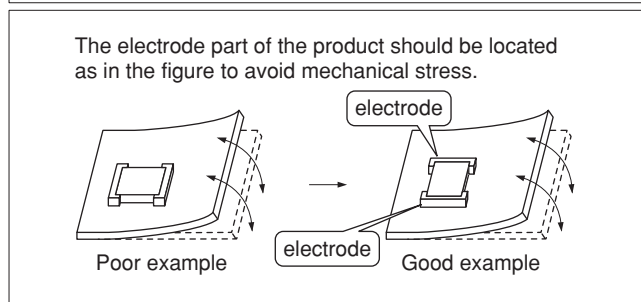
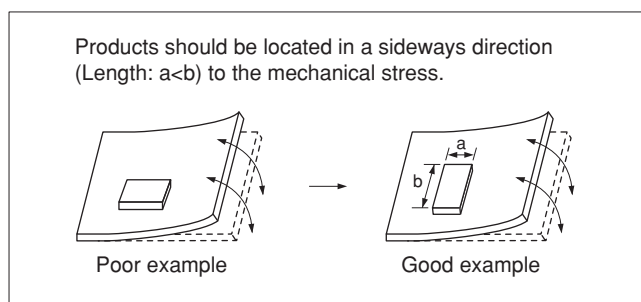
#### (3) Magnetic Coupling

Since some chip inductors (chip coils) are constructed like an open magnetic circuit, narrow spacing between inductors (coils) may cause magnetic coupling. LQB/LQM series have a magnetically shielded structure. The structure makes their coupling coefficient smaller than that of conventional chip inductors (chip coils).



#### (4) PCB Warping

PCB should be designed so that products are not subjected to the mechanical stress caused by warping the board.

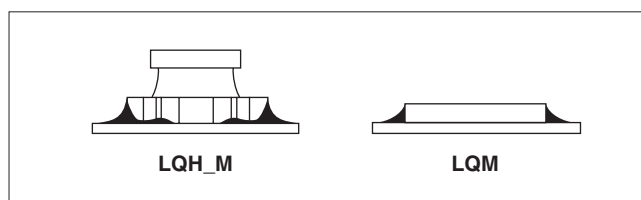


#### (5) Amount of Solder Paste

Excessive solder causes electrode corrosion, while insufficient solder causes low electrode bonding strength. Adjust the amount of solder paste as shown on the right so that solder is applied.

##### ● Guideline of solder paste thickness

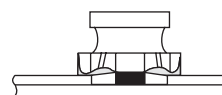
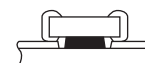
- LQB/LQM: 100 to 150μm
- LQHs except for ones written above: 200 to 300μm



Continued on the following page.

## (6) Amount of Adhesive

If too much adhesive is applied, then it may overflow into the land or termination areas and yield poor solderability. In contrast, if insufficient adhesive is applied, or if the adhesive is not sufficiently hardened, then the chip may become detached during flow soldering. Apply the adhesive in accordance with the conditions shown in the chart.

**LQH\_M/N****LQM**

| Part Number          | Typical Application Amount (in:mg) |
|----------------------|------------------------------------|
|                      | IR-100                             |
| <b>LQB18N/LQM18N</b> | 0.06-0.07                          |
| <b>LQM21N</b>        | 0.20-0.25                          |
| <b>LQH31M</b>        | 0.20-0.25                          |
| <b>LQH32M</b>        | 0.27-0.35                          |
| <b>LQH43M(N)</b>     | 0.60-0.80                          |

**4. Cleaning**

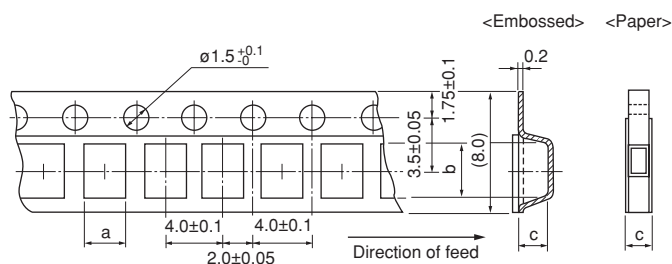
The following conditions should be observed when cleaning chip inductors (chip coils):

- (1) Cleaning Temperature: 60°C max. (40°C max. for alcohol cleaning agents)
- (2) Ultrasonic
  - Output: 20W/l max.
  - Duration: 5 minutes max.
  - Frequency: 28 to 40kHz
  - Care should be taken not to cause resonance of the PCB and mounted products.
- (3) Cleaning agent
  - The following cleaning agents have been tested on individual components. Evaluation in complete assembly should be done prior to production.
  - (a) Alcohol cleaning agents
    - Isopropyl alcohol (IPA)
  - (b) Aqueous cleaning agents
    - Pine Alpha ST-100S

- (4) Ensure that flux residue is completely removed. Component should be thoroughly dried after aqueous agents have been removed with deionized water.

For additional cleaning methods, please contact Murata.

### Minimum Quantity and 8mm Width Taping Dimensions



Dimension of the cavity of embossed tape is measured at the bottom side.

#### Paper Tape

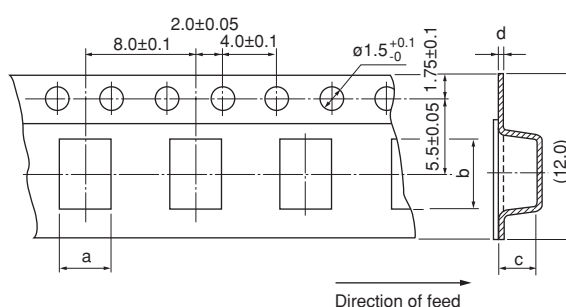
| Part Number                     | Dimensions |      | Total Thickness of Tape | Packaging Code (Minimum Qty. [pcs.]) |                          |          |
|---------------------------------|------------|------|-------------------------|--------------------------------------|--------------------------|----------|
|                                 | a          | b    |                         | $\phi 180\text{mm}$ reel             | $\phi 330\text{mm}$ reel | Bulk     |
| LQB15N                          | 1.15       | 0.65 | 0.8 max.                | D [10000]                            | J [50000]                | B [1000] |
| LQB18N                          | 1.05       | 1.85 | 1.1 max.                | D [4000]                             | -                        | B [1000] |
| LQM21N (0.1-2.2 $\mu\text{H}$ ) | 1.45       | 2.25 | 1.1 max.                | D [4000]                             | J [10000]                | B [1000] |
| LQM18N                          | 1.05       | 1.85 | 1.1 max.                | D [4000]                             | J [10000]                | B [1000] |

#### Embossed Tape

| Part Number                     | Dimensions |      | Depth of Cavity | Packaging Code (Minimum Qty. [pcs.]) |                          |          |
|---------------------------------|------------|------|-----------------|--------------------------------------|--------------------------|----------|
|                                 | a          | b    |                 | $\phi 180\text{mm}$ reel             | $\phi 330\text{mm}$ reel | Bulk     |
| LQM21N (2.7-4.7 $\mu\text{H}$ ) | 1.45       | 2.25 | 1.3             | L [3000]                             | K [10000]                | B [1000] |
| LQH31M                          | 1.9        | 3.6  | 2.0             | L [2000]                             | K [7500]                 | -        |
| LQH32M                          | 2.9        | 3.6  | 2.1             | L [2000]                             | K [7500]                 | -        |

(in mm)

### Minimum Quantity and 12mm Width Embossed Taping Dimensions



Dimension of the cavity of embossed tape is measured at the bottom side.

#### Embossed Tape

| Part Number | Dimensions (*c: Depth of Cavity) |     |     |     | Packaging Code (Minimum Qty. [pcs.]) |                          |      |
|-------------|----------------------------------|-----|-----|-----|--------------------------------------|--------------------------|------|
|             | a                                | b   | c   | d   | $\phi 180\text{mm}$ reel             | $\phi 330\text{mm}$ reel | Bulk |
| LQH43M(N)   | 3.6                              | 4.9 | 2.7 | 0.3 | L [500]                              | K [2500]                 | -    |
| LQH44N      | 4.3                              | 4.3 | 4.7 | 0.4 | L [250]                              | K [1500]                 | -    |

(in mm)

## ■ Holder Type



## ● EKLMQM18B-KIT (for General Use Multilayer Type)

| No. | Part Number   | Quantity (pcs.) | Inductance |           | Q (min.) | DC Resistance (Ω) max. | Rated Current (mA) |
|-----|---------------|-----------------|------------|-----------|----------|------------------------|--------------------|
|     |               |                 | Nominal    | Tolerance |          |                        |                    |
| 1   | LQM18NN47NM00 | 10              | 47nH       | ±20%      | 10       | 0.30                   | 50                 |
| 2   | LQM18NN68NM00 | 10              | 68nH       | ±20%      | 10       | 0.30                   | 50                 |
| 3   | LQM18NN82NM00 | 10              | 82nH       | ±20%      | 10       | 0.30                   | 50                 |
| 4   | LQM18NNR10K00 | 10              | 100nH      | ±10%      | 15       | 0.50                   | 50                 |
| 5   | LQM18NNR12K00 | 10              | 120nH      | ±10%      | 15       | 0.50                   | 50                 |
| 6   | LQM18NNR15K00 | 10              | 150nH      | ±10%      | 15       | 0.60                   | 50                 |
| 7   | LQM18NNR18K00 | 10              | 180nH      | ±10%      | 15       | 0.60                   | 50                 |
| 8   | LQM18NNR22K00 | 10              | 220nH      | ±10%      | 15       | 0.80                   | 50                 |
| 9   | LQM18NNR27K00 | 10              | 270nH      | ±10%      | 15       | 0.80                   | 50                 |
| 10  | LQM18NNR33K00 | 10              | 330nH      | ±10%      | 15       | 0.85                   | 35                 |
| 11  | LQM18NNR39K00 | 10              | 390nH      | ±10%      | 15       | 1.00                   | 35                 |
| 12  | LQM18NNR47K00 | 10              | 470nH      | ±10%      | 15       | 1.35                   | 35                 |
| 13  | LQM18NNR56K00 | 10              | 560nH      | ±10%      | 15       | 1.55                   | 35                 |
| 14  | LQM18NNR68K00 | 10              | 680nH      | ±10%      | 15       | 1.70                   | 35                 |
| 15  | LQM18NNR82K00 | 10              | 820nH      | ±10%      | 15       | 2.10                   | 35                 |
| 16  | LQM18NN1R0K00 | 10              | 1000nH     | ±10%      | 35       | 0.60                   | 25                 |
| 17  | LQM18NN1R2K00 | 10              | 1200nH     | ±10%      | 35       | 0.80                   | 25                 |
| 18  | LQM18NN1R5K00 | 10              | 1500nH     | ±10%      | 35       | 0.80                   | 25                 |
| 19  | LQM18NN1R8K00 | 10              | 1800nH     | ±10%      | 35       | 0.95                   | 25                 |
| 20  | LQM18NN2R2K00 | 10              | 2200nH     | ±10%      | 35       | 1.15                   | 15                 |

## ● EKLM21NB-KIT (for General Use Multilayer Type)

| No. | Part Number   | Quantity (pcs.) | Inductance |           | Q (min.) | DC Resistance (Ω) max. | Rated Current (mA) |
|-----|---------------|-----------------|------------|-----------|----------|------------------------|--------------------|
|     |               |                 | Nominal    | Tolerance |          |                        |                    |
| 1   | LQM21NNR10K10 | 10              | 0.1μH      | ±10%      | 20       | 0.26                   | 250                |
| 2   | LQM21NNR12K10 | 10              | 0.12μH     | ±10%      | 20       | 0.29                   | 250                |
| 3   | LQM21NNR15K10 | 10              | 0.15μH     | ±10%      | 20       | 0.32                   | 250                |
| 4   | LQM21NNR18K10 | 10              | 0.18μH     | ±10%      | 20       | 0.35                   | 250                |
| 5   | LQM21NNR22K10 | 10              | 0.22μH     | ±10%      | 20       | 0.38                   | 250                |
| 6   | LQM21NNR27K10 | 10              | 0.27μH     | ±10%      | 20       | 0.42                   | 250                |
| 7   | LQM21NNR33K10 | 10              | 0.33μH     | ±10%      | 20       | 0.48                   | 250                |
| 8   | LQM21NNR39K10 | 10              | 0.39μH     | ±10%      | 25       | 0.53                   | 200                |
| 9   | LQM21NNR47K10 | 10              | 0.47μH     | ±10%      | 25       | 0.57                   | 200                |
| 10  | LQM21NNR56K10 | 10              | 0.56μH     | ±10%      | 25       | 0.63                   | 150                |
| 11  | LQM21NNR68K10 | 10              | 0.68μH     | ±10%      | 25       | 0.72                   | 150                |
| 12  | LQM21NNR82K10 | 10              | 0.82μH     | ±10%      | 25       | 0.81                   | 150                |
| 13  | LQM21NN1R0K10 | 10              | 1.0μH      | ±10%      | 45       | 0.40                   | 50                 |
| 14  | LQM21NN1R2K10 | 10              | 1.2μH      | ±10%      | 45       | 0.47                   | 50                 |
| 15  | LQM21NN1R5K10 | 10              | 1.5μH      | ±10%      | 45       | 0.50                   | 50                 |
| 16  | LQM21NN1R8K10 | 10              | 1.8μH      | ±10%      | 45       | 0.57                   | 50                 |
| 17  | LQM21NN2R2K10 | 10              | 2.2μH      | ±10%      | 45       | 0.63                   | 30                 |
| 18  | LQM21NN2R7K10 | 10              | 2.7μH      | ±10%      | 45       | 0.69                   | 30                 |
| 19  | LQM21NN3R3K10 | 10              | 3.3μH      | ±10%      | 45       | 0.80                   | 30                 |
| 20  | LQM21NN3R9K10 | 10              | 3.9μH      | ±10%      | 45       | 0.89                   | 30                 |
| 21  | LQM21NN4R7K10 | 10              | 4.7μH      | ±10%      | 45       | 1.00                   | 30                 |

## ● EKLMH32MC-KIT (for General Use Wire Wound Type)

| No. | Part Number   | Quantity (pcs.) | Inductance |           | DC Resistance (Ω) max. | Rated Current (mA) |
|-----|---------------|-----------------|------------|-----------|------------------------|--------------------|
|     |               |                 | Nominal    | Tolerance |                        |                    |
| 1   | LQH32MN1R0M23 | 10              | 1.0μH      | ±20%      | 0.50                   | 445                |
| 2   | LQH32MN1R2M23 | 10              | 1.2μH      | ±20%      | 0.60                   | 425                |
| 3   | LQH32MN1R5K23 | 10              | 1.5μH      | ±10%      | 0.60                   | 400                |
| 4   | LQH32MN1R8K23 | 10              | 1.8μH      | ±10%      | 0.70                   | 390                |
| 5   | LQH32MN2R2K23 | 10              | 2.2μH      | ±10%      | 0.80                   | 370                |
| 6   | LQH32MN2R7K23 | 10              | 2.7μH      | ±10%      | 0.90                   | 320                |

Continued on the following page.

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| No. | Part Number   | Quantity<br>(pcs.) | Inductance |           | DC Resistance<br>(Ω) max. | Rated Current<br>(mA) |
|-----|---------------|--------------------|------------|-----------|---------------------------|-----------------------|
|     |               |                    | Nominal    | Tolerance |                           |                       |
| 7   | LQH32MN3R3K23 | 10                 | 3.3μH      | ±10%      | 1.00                      | 300                   |
| 8   | LQH32MN3R9K23 | 10                 | 3.9μH      | ±10%      | 1.10                      | 290                   |
| 9   | LQH32MN4R7K23 | 10                 | 4.7μH      | ±10%      | 1.20                      | 270                   |
| 10  | LQH32MN5R6K23 | 10                 | 5.6μH      | ±10%      | 1.30                      | 250                   |
| 11  | LQH32MN6R8K23 | 10                 | 6.8μH      | ±10%      | 1.50                      | 240                   |
| 12  | LQH32MN8R2K23 | 10                 | 8.2μH      | ±10%      | 1.60                      | 225                   |
| 13  | LQH32MN100K23 | 10                 | 10μH       | ±10%      | 1.8                       | 190                   |
| 14  | LQH32MN120K23 | 10                 | 12μH       | ±10%      | 2.0                       | 180                   |
| 15  | LQH32MN150K23 | 10                 | 15μH       | ±10%      | 2.2                       | 170                   |
| 16  | LQH32MN180K23 | 10                 | 18μH       | ±10%      | 2.5                       | 165                   |
| 17  | LQH32MN220K23 | 10                 | 22μH       | ±10%      | 2.8                       | 150                   |
| 18  | LQH32MN270K23 | 10                 | 27μH       | ±10%      | 3.1                       | 125                   |
| 19  | LQH32MN330K23 | 10                 | 33μH       | ±10%      | 3.5                       | 115                   |
| 20  | LQH32MN390K23 | 10                 | 39μH       | ±10%      | 3.9                       | 110                   |
| 21  | LQH32MN470K23 | 10                 | 47μH       | ±10%      | 4.3                       | 100                   |
| 22  | LQH32MN560K23 | 10                 | 56μH       | ±10%      | 4.9                       | 85                    |
| 23  | LQH32MN680K23 | 10                 | 68μH       | ±10%      | 5.5                       | 80                    |
| 24  | LQH32MN820K23 | 10                 | 82μH       | ±10%      | 6.2                       | 70                    |
| 25  | LQH32MN101K23 | 10                 | 100μH      | ±10%      | 7.0                       | 80                    |
| 26  | LQH32MN121K23 | 10                 | 120μH      | ±10%      | 8.0                       | 75                    |
| 27  | LQH32MN151K23 | 10                 | 150μH      | ±10%      | 9.3                       | 70                    |
| 28  | LQH32MN181K23 | 10                 | 180μH      | ±10%      | 10.2                      | 65                    |
| 29  | LQH32MN221K23 | 10                 | 220μH      | ±10%      | 11.8                      | 65                    |
| 30  | LQH32MN271K23 | 10                 | 270μH      | ±10%      | 12.5                      | 65                    |
| 31  | LQH32MN331K23 | 10                 | 330μH      | ±10%      | 13.0                      | 65                    |
| 32  | LQH32MN391K23 | 10                 | 390μH      | ±10%      | 22.0                      | 50                    |
| 33  | LQH32MN471K23 | 10                 | 470μH      | ±10%      | 25.0                      | 45                    |
| 34  | LQH32MN561K23 | 10                 | 560μH      | ±10%      | 28.0                      | 40                    |

●EKLHM43MB-KIT (for General Use Wire Wound Type)

| No. | Part Number   | Quantity<br>(pcs.) | Inductance |           | DC Resistance<br>(Ω) max. | Rated Current<br>(mA) |
|-----|---------------|--------------------|------------|-----------|---------------------------|-----------------------|
|     |               |                    | Nominal    | Tolerance |                           |                       |
| 1   | LQH43MN1R0M03 | 10                 | 1.0μH      | ±20%      | 0.20                      | 500                   |
| 2   | LQH43MN1R2M03 | 10                 | 1.2μH      | ±20%      | 0.20                      | 500                   |
| 3   | LQH43MN1R5M03 | 10                 | 1.5μH      | ±20%      | 0.30                      | 500                   |
| 4   | LQH43MN1R8M03 | 10                 | 1.8μH      | ±20%      | 0.30                      | 500                   |
| 5   | LQH43MN2R2M03 | 10                 | 2.2μH      | ±20%      | 0.30                      | 500                   |
| 6   | LQH43MN2R7M03 | 10                 | 2.7μH      | ±20%      | 0.32                      | 500                   |
| 7   | LQH43MN3R3M03 | 10                 | 3.3μH      | ±20%      | 0.35                      | 500                   |
| 8   | LQH43MN3R9M03 | 10                 | 3.9μH      | ±20%      | 0.38                      | 500                   |
| 9   | LQH43MN4R7K03 | 10                 | 4.7μH      | ±10%      | 0.40                      | 500                   |
| 10  | LQH43MN5R6K03 | 10                 | 5.6μH      | ±10%      | 0.47                      | 500                   |
| 11  | LQH43MN6R8K03 | 10                 | 6.8μH      | ±10%      | 0.50                      | 450                   |
| 12  | LQH43MN8R2K03 | 10                 | 8.2μH      | ±10%      | 0.56                      | 450                   |
| 13  | LQH43MN100K03 | 10                 | 10μH       | ±10%      | 0.56                      | 400                   |
| 14  | LQH43MN120K03 | 10                 | 12μH       | ±10%      | 0.62                      | 380                   |
| 15  | LQH43MN150K03 | 10                 | 15μH       | ±10%      | 0.73                      | 360                   |
| 16  | LQH43MN180K03 | 10                 | 18μH       | ±10%      | 0.82                      | 340                   |
| 17  | LQH43MN220K03 | 10                 | 22μH       | ±10%      | 0.94                      | 320                   |
| 18  | LQH43MN270K03 | 10                 | 27μH       | ±10%      | 1.10                      | 300                   |
| 19  | LQH43MN330K03 | 10                 | 33μH       | ±10%      | 1.20                      | 270                   |
| 20  | LQH43MN390K03 | 10                 | 39μH       | ±10%      | 1.40                      | 240                   |
| 21  | LQH43MN470K03 | 10                 | 47μH       | ±10%      | 1.50                      | 220                   |
| 22  | LQH43MN560K03 | 10                 | 56μH       | ±10%      | 1.7                       | 200                   |
| 23  | LQH43MN680K03 | 10                 | 68μH       | ±10%      | 1.9                       | 180                   |
| 24  | LQH43MN820K03 | 10                 | 82μH       | ±10%      | 2.2                       | 170                   |
| 25  | LQH43MN101K03 | 10                 | 100μH      | ±10%      | 2.5                       | 160                   |
| 26  | LQH43MN121K03 | 10                 | 120μH      | ±10%      | 3.0                       | 150                   |
| 27  | LQH43MN151K03 | 10                 | 150μH      | ±10%      | 3.7                       | 130                   |
| 28  | LQH43MN181K03 | 10                 | 180μH      | ±10%      | 4.5                       | 120                   |
| 29  | LQH43MN221K03 | 10                 | 220μH      | ±10%      | 5.4                       | 110                   |
| 30  | LQH43MN271K03 | 10                 | 270μH      | ±10%      | 6.8                       | 100                   |
| 31  | LQH43MN331K03 | 10                 | 330μH      | ±10%      | 8.2                       | 95                    |
| 32  | LQH43MN391K03 | 10                 | 390μH      | ±10%      | 9.7                       | 90                    |
| 33  | LQH43MN471K03 | 10                 | 470μH      | ±10%      | 11.8                      | 80                    |

Continued on the following page. 

⚠Note • Please read rating and ⚠CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.  
 • This catalog has only typical specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

 Continued from the preceding page.

| No. | Part Number   | Quantity<br>(pcs.) | Inductance |           | DC Resistance<br>(Ω) max. | Rated Current<br>(mA) |
|-----|---------------|--------------------|------------|-----------|---------------------------|-----------------------|
|     |               |                    | Nominal    | Tolerance |                           |                       |
| 34  | LQH43MN561K03 | 10                 | 560μH      | ±10%      | 14.5                      | 70                    |
| 35  | LQH43MN681K03 | 10                 | 680μH      | ±10%      | 17.0                      | 65                    |
| 36  | LQH43MN821K03 | 10                 | 820μH      | ±10%      | 20.5                      | 60                    |
| 37  | LQH43MN102K03 | 10                 | 1000μH     | ±10%      | 25.0                      | 50                    |
| 38  | LQH43MN122K03 | 10                 | 1200μH     | ±10%      | 30.0                      | 45                    |
| 39  | LQH43MN152K03 | 10                 | 1500μH     | ±10%      | 37.0                      | 40                    |
| 40  | LQH43NN182K03 | 10                 | 1800μH     | ±10%      | 45.0                      | 35                    |
| 41  | LQH43NN222K03 | 10                 | 2200μH     | ±10%      | 50.0                      | 30                    |

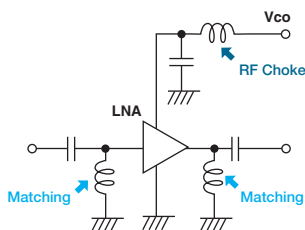
## ● RF Inductors

|                              |     |
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| Introduction .....           | 146 |
| Part Numbering .....         | 147 |
| Product Detail .....         | 148 |
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# Introduction of RF Inductors

## Applications of RF Inductors

### LNA



#### For Matching

High Q or tight inductance tolerance is required to improve signal quality. Especially, film type is suitable at receiver circuit because tight tolerance is required.

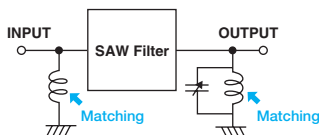
■Recommended  
 Film Type  
 LQP03T Series (for miniaturization)  
 LQP15M Series  
 Multilayer Type  
 LQG15H Series  
 Wire Wound Type  
 LQW15A Series  
 LQW18A Series

#### For RF Choke

Low DC resistance is required because of large operation current. Wire wound type or multilayer type is suitable.

■Recommended  
 Wire Wound Type  
 LQW15A Series  
 LQW18A Series  
 Multilayer Type  
 LQG15H Series

### IF SAW Filter

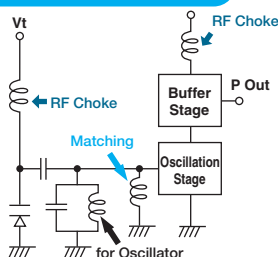


#### For Matching

High Q is required to reduce signal loss. Wire wound type and film type are suitable when tight tolerance is essential.

■Recommended  
 Wire Wound Type  
 LQW15A Series  
 LQW18A Series  
 LQW2BH Series  
 Film Type  
 LQP03T Series  
 LQP15M Series  
 Multilayer Type  
 LQG15H Series

### VCO



#### For Matching

#### For Oscillator

High Q or tight inductance tolerance is required to stabilize oscillation and signal quality. Wire wound type is suitable for high Q, film type is suitable for tight tolerance.

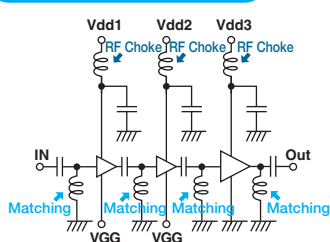
■Recommended  
 Wire Wound Type  
 LQW15A Series  
 LQW18A Series  
 LQW18A\_10 Series  
 (for output efficiency improvement)  
 Film Type  
 LQP03T Series  
 (for miniaturization)  
 LQP15M Series  
 (for frequency selectivity)  
 Multilayer Type  
 LQG15H Series

#### For RF Choke

Low DC resistance is required because of large operation current. Wire wound type or multilayer type is suitable.

■Recommended  
 Wire Wound Type  
 LQW15A Series  
 LQW18A Series  
 LQW18A\_10 Series  
 Multilayer Type  
 LQG15H Series

### PA



#### For Matching

Small shape is required. Film type is suitable because of its tight inductance tolerance and fine inductance step.

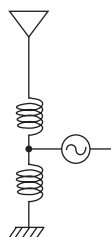
■Recommended  
 Film Type  
 LQP02T Series  
 LQP03T Series (for miniaturization)  
 LQP15M Series (for frequency selectivity)  
 Multilayer Type  
 LQG15H Series

#### For RF Choke

Low DC resistance is required because of large operation current. Especially, wire wound type is suitable for GSM because over 1A of current is working.

■Recommended  
 Wire Wound Type  
 LQW15A Series  
 LQW18A Series  
 LQW18A\_10 Series  
 LQW2BH Series  
 (for output efficiency improvement)  
 Multilayer Type  
 LQG15H Series

### ANTENNA



#### For Matching

LQW series is suitable for attaining high antenna sensitivity because of its high Q and tight tolerance spec.

■Recommended  
 Wire Wound Type  
 LQW15A Series  
 LQW18A Series

# RF Inductors Part Numbering

|               |           |          |           |          |          |            |          |          |          |          |
|---------------|-----------|----------|-----------|----------|----------|------------|----------|----------|----------|----------|
| (Part Number) | <b>LQ</b> | <b>G</b> | <b>15</b> | <b>H</b> | <b>N</b> | <b>1N0</b> | <b>S</b> | <b>0</b> | <b>2</b> | <b>D</b> |
|               | ①         | ②        | ③         | ④        | ⑤        | ⑥          | ⑦        | ⑧        | ⑨        | ⑩        |

## ① Product ID

| Product ID |                             |
|------------|-----------------------------|
| <b>LQ</b>  | Chip Inductors (Chip Coils) |

## ② Structure

| Code     | Structure                                    |
|----------|----------------------------------------------|
| <b>G</b> | Multilayer Type (Air-core Inductors (Coils)) |
| <b>H</b> | Wire Wound Type (Ferrite Core)               |
| <b>P</b> | Film Type                                    |
| <b>W</b> | Wire Wound Type (Air-core Inductors (Coils)) |
|          | Wire Wound Type (Ferrite Core)               |

## ③ Dimensions (L×W)

| Code      | Dimensions (L×W) | Size Code (in inch) |
|-----------|------------------|---------------------|
| <b>02</b> | 0.4×0.2mm        | 01005               |
| <b>03</b> | 0.6×0.3mm        | 0201                |
| <b>04</b> | 0.8×0.4mm        | 03015               |
| <b>15</b> | 1.0×0.5mm        | 0402                |
| <b>18</b> | 1.6×0.8mm        | 0603                |
| <b>21</b> | 2.0×1.25mm       | 0805                |
| <b>2B</b> | 2.0×1.5mm        | 0805                |
| <b>2U</b> | 2.5×2.0mm        | 1008                |
| <b>31</b> | 3.2×1.6mm        | 1206                |

## ④ Applications and Characteristics

| Code     | Series     | Applications and Characteristics      |
|----------|------------|---------------------------------------|
| <b>H</b> | <b>LQG</b> | Multilayer Air-core Inductors (Coils) |
| <b>M</b> | <b>LQP</b> | Film Type                             |
| <b>T</b> |            | Film Type (Low DC Resistance Type)    |
| <b>A</b> | <b>LQW</b> | High Q Type (UHF-SHF)                 |
| <b>H</b> |            | High Q Type (VHF-UHF)                 |
| <b>H</b> | <b>LQH</b> | for High-frequency Resonant Circuit   |

## ⑤ Category

| Code       | Category             |
|------------|----------------------|
| <b>G/N</b> | Standard Type        |
| <b>S</b>   |                      |
| <b>Q</b>   | High Q Type          |
| <b>W</b>   | Specialty Dimensions |

## ⑩ Packaging

| Code     | Packaging                     | Series                            |
|----------|-------------------------------|-----------------------------------|
| <b>K</b> | Embossed Taping (ø330mm Reel) | <b>LQH/LQW□□H</b> *2              |
| <b>L</b> | Embossed Taping (ø180mm Reel) | <b>LQH/LQW2BA/LQW2UA/LQW□□H</b>   |
| <b>B</b> | Bulk                          | <b>LQW/LQG/LQP</b>                |
| <b>J</b> | Paper Taping (ø330mm Reel)    | <b>LQW18A/LQG/LQP</b> *1          |
| <b>D</b> | Paper Taping (ø180mm Reel)    | <b>LQW□□A</b> *3 / <b>LQG/LQP</b> |

\*1 Except for LQP02T

\*2 Except for LQW21H

\*3 Except for LQW2BA/LQW2UA

## ⑥ Inductance

Expressed by three-digit alphanumeric. The unit is micro-henry (μH). The first and second figures are significant digits, and the third figure expresses the number of zeros that follow the two figures. If there is a decimal point, it is expressed by the capital letter "R." In this case, all figures are significant digits. If inductance is less than 0.1μH, the inductance code is expressed by a combination of two figures and the capital letter "N," and the unit of inductance is nano-henry (nH). The capital letter "N" indicates the unit of "nH," and also expresses a decimal point. In this case, all figures are significant digits.

## ⑦ Inductance Tolerance

| Code     | Inductance Tolerance |
|----------|----------------------|
| <b>B</b> | ±0.1nH               |
| <b>C</b> | ±0.2nH               |
| <b>D</b> | ±0.5nH               |
| <b>G</b> | ±2%                  |
| <b>H</b> | ±3%                  |
| <b>J</b> | ±5%                  |
| <b>K</b> | ±10%                 |
| <b>S</b> | ±0.3nH               |
| <b>W</b> | ±0.05nH              |

## ⑧ Features

| Code     | Features                               | Series                    |
|----------|----------------------------------------|---------------------------|
| <b>0</b> | Standard Type                          | <b>LQG/LQP/LQW/LQH</b> *1 |
| <b>1</b> | High-Q/Low DC Resistance               | <b>LQW15A/18A/2BH</b>     |
| <b>8</b> | Low DC Resistance, Large Rated Current | <b>LQW15A/LQW18A</b>      |

\*1 Except for LQH32 Series

## ⑨ Electrode

•Lead (Pb) Free

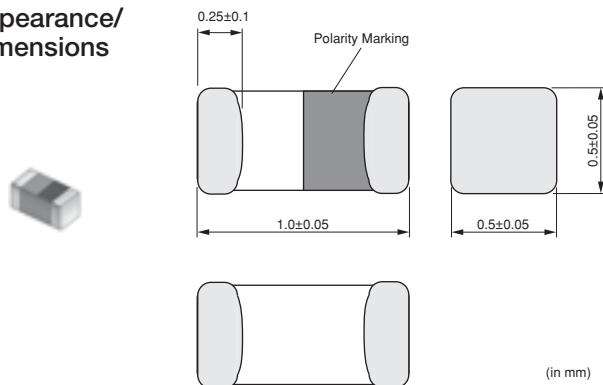
| Code     | Electrode | Series                                    |
|----------|-----------|-------------------------------------------|
| <b>0</b> | Sn        | <b>LQG18H/LQW□□A/LQW□□C</b>               |
| <b>2</b> |           | <b>LQG15H/LQP02T/LQP03T/LQP15T/LQP□□M</b> |
| <b>3</b> | LF Solder | <b>LQW□□H/LQH</b>                         |

# LQG15HN\_02

Series 0402/1005 (inch/mm)

## Size Code 0402 (1005) in inch (in mm), Multilayer Type

### ■ Appearance/Dimensions



### ■ Packaging

| Code | Packaging           | Minimum Quantity |
|------|---------------------|------------------|
| D    | ø180mm Paper Taping | 10000            |
| J    | ø330mm Paper Taping | 50000            |
| B    | Packing in Bulk     | 1000             |



Refer to pages 227 to 230 for mounting information.

### ■ Rated Value (□: packaging code)

| Part Number     | Inductance   | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |
|-----------------|--------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|
| LQG15HN1N0S02□  | 1.0nH ±0.3nH | 100MHz                    | 300mA         | 0.10 Ω                | 8        | 100MHz           | 6000MHz                         |
| LQG15HN1N1S02□  | 1.1nH ±0.3nH | 100MHz                    | 300mA         | 0.10 Ω                | 8        | 100MHz           | 6000MHz                         |
| LQG15HN1N2S02□  | 1.2nH ±0.3nH | 100MHz                    | 300mA         | 0.10 Ω                | 8        | 100MHz           | 6000MHz                         |
| LQG15HN1N3S02□  | 1.3nH ±0.3nH | 100MHz                    | 300mA         | 0.10 Ω                | 8        | 100MHz           | 6000MHz                         |
| LQG15HN1N5S02□  | 1.5nH ±0.3nH | 100MHz                    | 300mA         | 0.10 Ω                | 8        | 100MHz           | 6000MHz                         |
| LQG15HN1N6S02□  | 1.6nH ±0.3nH | 100MHz                    | 300mA         | 0.10 Ω                | 8        | 100MHz           | 6000MHz                         |
| LQG15HN1N8S02□  | 1.8nH ±0.3nH | 100MHz                    | 300mA         | 0.10 Ω                | 8        | 100MHz           | 6000MHz                         |
| LQG15HN2N0S02□  | 2.0nH ±0.3nH | 100MHz                    | 300mA         | 0.12 Ω                | 8        | 100MHz           | 6000MHz                         |
| LQG15HN2N2S02□  | 2.2nH ±0.3nH | 100MHz                    | 300mA         | 0.15 Ω                | 8        | 100MHz           | 6000MHz                         |
| LQG15HN2N4S02□  | 2.4nH ±0.3nH | 100MHz                    | 300mA         | 0.16 Ω                | 8        | 100MHz           | 6000MHz                         |
| LQG15HN2N7S02□  | 2.7nH ±0.3nH | 100MHz                    | 300mA         | 0.17 Ω                | 8        | 100MHz           | 6000MHz                         |
| LQG15HN3N0S02□  | 3.0nH ±0.3nH | 100MHz                    | 300mA         | 0.18 Ω                | 8        | 100MHz           | 6000MHz                         |
| LQG15HN3N3S02□  | 3.3nH ±0.3nH | 100MHz                    | 300mA         | 0.19 Ω                | 8        | 100MHz           | 6000MHz                         |
| LQG15HN3N6S02□  | 3.6nH ±0.3nH | 100MHz                    | 300mA         | 0.19 Ω                | 8        | 100MHz           | 6000MHz                         |
| LQG15HN3N9S02□  | 3.9nH ±0.3nH | 100MHz                    | 300mA         | 0.19 Ω                | 8        | 100MHz           | 6000MHz                         |
| LQG15HN4N3S02□  | 4.3nH ±0.3nH | 100MHz                    | 300mA         | 0.21 Ω                | 8        | 100MHz           | 6000MHz                         |
| LQG15HN4N7S02□  | 4.7nH ±0.3nH | 100MHz                    | 300mA         | 0.23 Ω                | 8        | 100MHz           | 6000MHz                         |
| LQG15HN5N1S02□  | 5.1nH ±0.3nH | 100MHz                    | 300mA         | 0.24 Ω                | 8        | 100MHz           | 6000MHz                         |
| LQG15HN5N6S02□  | 5.6nH ±0.3nH | 100MHz                    | 300mA         | 0.26 Ω                | 8        | 100MHz           | 5300MHz                         |
| LQG15HN6N2S02□  | 6.2nH ±0.3nH | 100MHz                    | 300mA         | 0.27 Ω                | 8        | 100MHz           | 4300MHz                         |
| LQG15HN6N8J02□  | 6.8nH ±5%    | 100MHz                    | 300mA         | 0.29 Ω                | 8        | 100MHz           | 4200MHz                         |
| LQG15HN7N5J02□  | 7.5nH ±5%    | 100MHz                    | 300mA         | 0.31 Ω                | 8        | 100MHz           | 3900MHz                         |
| LQG15HN8N2J02□  | 8.2nH ±5%    | 100MHz                    | 300mA         | 0.33 Ω                | 8        | 100MHz           | 3600MHz                         |
| LQG15HN9N1J02□  | 9.1nH ±5%    | 100MHz                    | 300mA         | 0.34 Ω                | 8        | 100MHz           | 3400MHz                         |
| LQG15HN10N0J02□ | 10nH ±5%     | 100MHz                    | 300mA         | 0.35 Ω                | 8        | 100MHz           | 3200MHz                         |
| LQG15HN12N0J02□ | 12nH ±5%     | 100MHz                    | 300mA         | 0.41 Ω                | 8        | 100MHz           | 2800MHz                         |
| LQG15HN15N0J02□ | 15nH ±5%     | 100MHz                    | 300mA         | 0.46 Ω                | 8        | 100MHz           | 2300MHz                         |
| LQG15HN18N0J02□ | 18nH ±5%     | 100MHz                    | 300mA         | 0.51 Ω                | 8        | 100MHz           | 2100MHz                         |
| LQG15HN22N0J02□ | 22nH ±5%     | 100MHz                    | 300mA         | 0.58 Ω                | 8        | 100MHz           | 1800MHz                         |
| LQG15HN27N0J02□ | 27nH ±5%     | 100MHz                    | 300mA         | 0.67 Ω                | 8        | 100MHz           | 1600MHz                         |
| LQG15HN33N0J02□ | 33nH ±5%     | 100MHz                    | 200mA         | 0.67 Ω                | 8        | 100MHz           | 1500MHz                         |
| LQG15HN39N0J02□ | 39nH ±5%     | 100MHz                    | 200mA         | 1.06 Ω                | 8        | 100MHz           | 1200MHz                         |

Operating Temperature Range (Self-temperature rise is not included): -55°C~+125°C  
For reflow soldering only.

Continued on the following page.

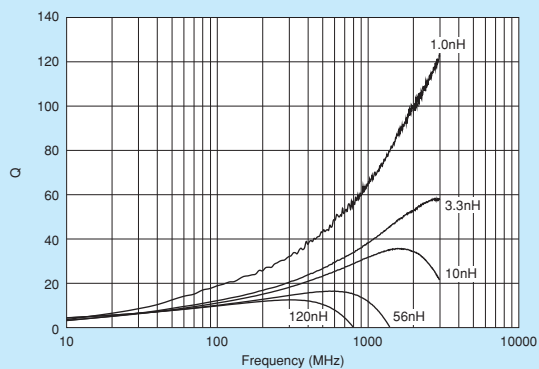
△Note • Please read rating and △CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.  
• This catalog has only typical specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

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Nov.25,2013

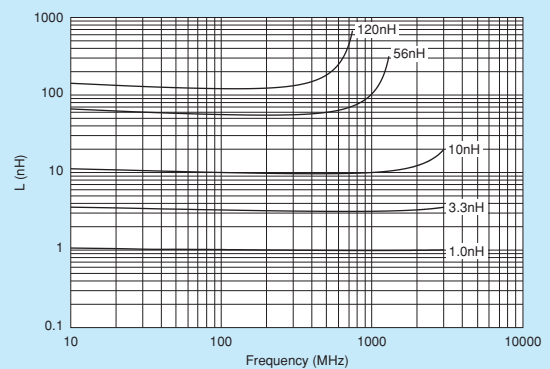
| Part Number    | Inductance      | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |
|----------------|-----------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|
| LQG15HN47NJ02□ | 47nH $\pm 5\%$  | 100MHz                    | 200mA         | 1.15 $\Omega$         | 8        | 100MHz           | 1000MHz                         |
| LQG15HN56NJ02□ | 56nH $\pm 5\%$  | 100MHz                    | 200mA         | 1.20 $\Omega$         | 8        | 100MHz           | 800MHz                          |
| LQG15HN68NJ02□ | 68nH $\pm 5\%$  | 100MHz                    | 180mA         | 1.25 $\Omega$         | 8        | 100MHz           | 800MHz                          |
| LQG15HN82NJ02□ | 82nH $\pm 5\%$  | 100MHz                    | 150mA         | 1.60 $\Omega$         | 8        | 100MHz           | 600MHz                          |
| LQG15HNR10J02□ | 100nH $\pm 5\%$ | 100MHz                    | 150mA         | 1.60 $\Omega$         | 8        | 100MHz           | 600MHz                          |
| LQG15HNR12J02□ | 120nH $\pm 5\%$ | 100MHz                    | 150mA         | 1.60 $\Omega$         | 8        | 100MHz           | 600MHz                          |

Operating Temperature Range (Self-temperature rise is not included): -55°C~+125°C  
For reflow soldering only.

### ■ Q-Frequency Characteristics (Typ.)



### ■ Inductance-Frequency Characteristics (Typ.)

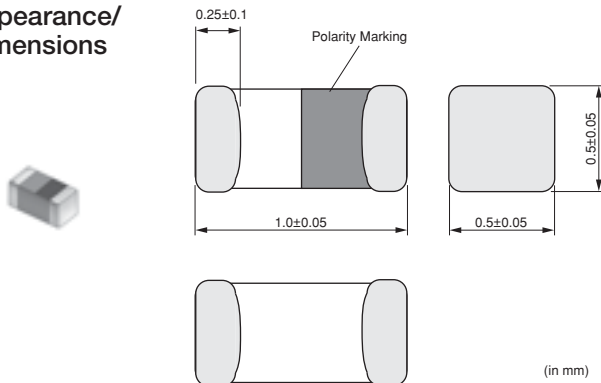


# LQG15HS\_02

Series 0402/1005 (inch/mm)

Designed under Industrial Global Standard

## Appearance/Dimensions



## Packaging

| Code | Packaging           | Minimum Quantity |
|------|---------------------|------------------|
| D    | ø180mm Paper Taping | 10000            |
| J    | ø330mm Paper Taping | 50000            |
| B    | Packing in Bulk     | 1000             |



Refer to pages 227 to 230 for mounting information.

## Rated Value (□: packaging code)

| Part Number     | Inductance   | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |     |
|-----------------|--------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|-----|
| LQG15HS1N0S02□  | 1.0nH ±0.3nH | 100MHz                    | 300mA         | 0.07Ω                 | 8        | 100MHz           | 10000MHz                        | Kit |
| LQG15HS1N1S02□  | 1.1nH ±0.3nH | 100MHz                    | 300mA         | 0.09Ω                 | 8        | 100MHz           | 6000MHz                         | Kit |
| LQG15HS1N2S02□  | 1.2nH ±0.3nH | 100MHz                    | 300mA         | 0.09Ω                 | 8        | 100MHz           | 6000MHz                         | Kit |
| LQG15HS1N3S02□  | 1.3nH ±0.3nH | 100MHz                    | 300mA         | 0.09Ω                 | 8        | 100MHz           | 6000MHz                         | Kit |
| LQG15HS1N5S02□  | 1.5nH ±0.3nH | 100MHz                    | 300mA         | 0.10Ω                 | 8        | 100MHz           | 6000MHz                         | Kit |
| LQG15HS1N6S02□  | 1.6nH ±0.3nH | 100MHz                    | 300mA         | 0.10Ω                 | 8        | 100MHz           | 6000MHz                         | Kit |
| LQG15HS1N8S02□  | 1.8nH ±0.3nH | 100MHz                    | 300mA         | 0.10Ω                 | 8        | 100MHz           | 6000MHz                         | Kit |
| LQG15HS2N0S02□  | 2.0nH ±0.3nH | 100MHz                    | 300mA         | 0.10Ω                 | 8        | 100MHz           | 6000MHz                         | Kit |
| LQG15HS2N2S02□  | 2.2nH ±0.3nH | 100MHz                    | 300mA         | 0.12Ω                 | 8        | 100MHz           | 6000MHz                         | Kit |
| LQG15HS2N4S02□  | 2.4nH ±0.3nH | 100MHz                    | 300mA         | 0.15Ω                 | 8        | 100MHz           | 6000MHz                         | Kit |
| LQG15HS2N7S02□  | 2.7nH ±0.3nH | 100MHz                    | 300mA         | 0.15Ω                 | 8        | 100MHz           | 6000MHz                         | Kit |
| LQG15HS3N0S02□  | 3.0nH ±0.3nH | 100MHz                    | 300mA         | 0.17Ω                 | 8        | 100MHz           | 6000MHz                         | Kit |
| LQG15HS3N3S02□  | 3.3nH ±0.3nH | 100MHz                    | 300mA         | 0.17Ω                 | 8        | 100MHz           | 6000MHz                         | Kit |
| LQG15HS3N6S02□  | 3.6nH ±0.3nH | 100MHz                    | 300mA         | 0.18Ω                 | 8        | 100MHz           | 6000MHz                         | Kit |
| LQG15HS3N9S02□  | 3.9nH ±0.3nH | 100MHz                    | 300mA         | 0.18Ω                 | 8        | 100MHz           | 6000MHz                         | Kit |
| LQG15HS4N3S02□  | 4.3nH ±0.3nH | 100MHz                    | 300mA         | 0.18Ω                 | 8        | 100MHz           | 6000MHz                         | Kit |
| LQG15HS4N7S02□  | 4.7nH ±0.3nH | 100MHz                    | 300mA         | 0.18Ω                 | 8        | 100MHz           | 6000MHz                         | Kit |
| LQG15HS5N1S02□  | 5.1nH ±0.3nH | 100MHz                    | 300mA         | 0.20Ω                 | 8        | 100MHz           | 5300MHz                         | Kit |
| LQG15HS5N6S02□  | 5.6nH ±0.3nH | 100MHz                    | 300mA         | 0.20Ω                 | 8        | 100MHz           | 4500MHz                         | Kit |
| LQG15HS6N2S02□  | 6.2nH ±0.3nH | 100MHz                    | 300mA         | 0.22Ω                 | 8        | 100MHz           | 4500MHz                         | Kit |
| LQG15HS6N8J02□  | 6.8nH ±5%    | 100MHz                    | 300mA         | 0.24Ω                 | 8        | 100MHz           | 4500MHz                         | Kit |
| LQG15HS7N5J02□  | 7.5nH ±5%    | 100MHz                    | 300mA         | 0.24Ω                 | 8        | 100MHz           | 4200MHz                         | Kit |
| LQG15HS8N2J02□  | 8.2nH ±5%    | 100MHz                    | 300mA         | 0.24Ω                 | 8        | 100MHz           | 3700MHz                         | Kit |
| LQG15HS9N1J02□  | 9.1nH ±5%    | 100MHz                    | 300mA         | 0.26Ω                 | 8        | 100MHz           | 3400MHz                         | Kit |
| LQG15HS10N0J02□ | 10nH ±5%     | 100MHz                    | 300mA         | 0.26Ω                 | 8        | 100MHz           | 3400MHz                         | Kit |
| LQG15HS12N0J02□ | 12nH ±5%     | 100MHz                    | 300mA         | 0.28Ω                 | 8        | 100MHz           | 3000MHz                         | Kit |
| LQG15HS15N0J02□ | 15nH ±5%     | 100MHz                    | 300mA         | 0.32Ω                 | 8        | 100MHz           | 2500MHz                         | Kit |
| LQG15HS18N0J02□ | 18nH ±5%     | 100MHz                    | 300mA         | 0.36Ω                 | 8        | 100MHz           | 2200MHz                         | Kit |
| LQG15HS22N0J02□ | 22nH ±5%     | 100MHz                    | 300mA         | 0.42Ω                 | 8        | 100MHz           | 1900MHz                         | Kit |
| LQG15HS27N0J02□ | 27nH ±5%     | 100MHz                    | 300mA         | 0.46Ω                 | 8        | 100MHz           | 1700MHz                         | Kit |
| LQG15HS33N0J02□ | 33nH ±5%     | 100MHz                    | 200mA         | 0.58Ω                 | 8        | 100MHz           | 1600MHz                         | Kit |
| LQG15HS39N0J02□ | 39nH ±5%     | 100MHz                    | 200mA         | 0.65Ω                 | 8        | 100MHz           | 1200MHz                         | Kit |

Operating Temperature Range (Self-temperature rise is not included): -55°C~+125°C  
For reflow soldering only.

Continued on the following page.

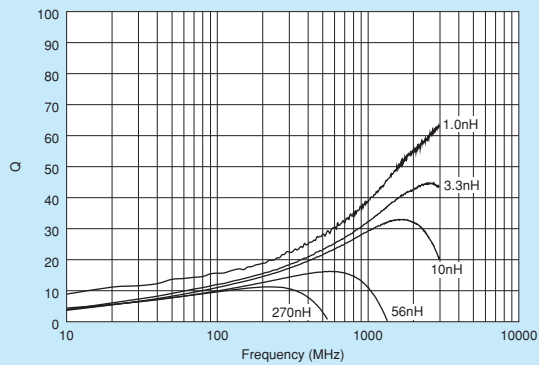
△Note • Please read rating and △CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.  
• This catalog has only typical specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

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Nov.25,2013

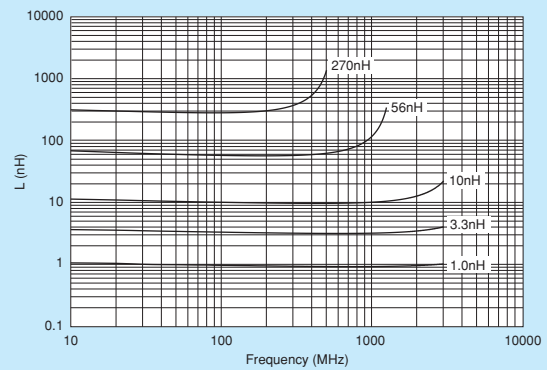
| Part Number    | Inductance      | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |     |
|----------------|-----------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|-----|
| LQG15HS47NJ02□ | 47nH $\pm 5\%$  | 100MHz                    | 200mA         | 0.72 $\Omega$         | 8        | 100MHz           | 1000MHz                         | Kit |
| LQG15HS56NJ02□ | 56nH $\pm 5\%$  | 100MHz                    | 200mA         | 0.82 $\Omega$         | 8        | 100MHz           | 800MHz                          | Kit |
| LQG15HS68NJ02□ | 68nH $\pm 5\%$  | 100MHz                    | 180mA         | 0.92 $\Omega$         | 8        | 100MHz           | 800MHz                          | Kit |
| LQG15HS82NJ02□ | 82nH $\pm 5\%$  | 100MHz                    | 150mA         | 1.20 $\Omega$         | 8        | 100MHz           | 700MHz                          | Kit |
| LQG15HSR10J02□ | 100nH $\pm 5\%$ | 100MHz                    | 150mA         | 1.25 $\Omega$         | 8        | 100MHz           | 600MHz                          | Kit |
| LQG15HSR12J02□ | 120nH $\pm 5\%$ | 100MHz                    | 150mA         | 1.30 $\Omega$         | 8        | 100MHz           | 600MHz                          | Kit |
| LQG15HSR15J02□ | 150nH $\pm 5\%$ | 100MHz                    | 140mA         | 2.99 $\Omega$         | 8        | 100MHz           | 550MHz                          | Kit |
| LQG15HSR18J02□ | 180nH $\pm 5\%$ | 100MHz                    | 130mA         | 3.38 $\Omega$         | 8        | 100MHz           | 500MHz                          | Kit |
| LQG15HSR22J02□ | 220nH $\pm 5\%$ | 100MHz                    | 120mA         | 3.77 $\Omega$         | 8        | 100MHz           | 450MHz                          | Kit |
| LQG15HSR27J02□ | 270nH $\pm 5\%$ | 100MHz                    | 110mA         | 4.94 $\Omega$         | 8        | 100MHz           | 400MHz                          | Kit |

Operating Temperature Range (Self-temperature rise is not included): -55°C~+125°C  
For reflow soldering only.

■ Q-Frequency Characteristics (Typ.)



■ Inductance-Frequency Characteristics (Typ.)



Continued on the following page.

⚠Note • Please read rating and ⚠CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.  
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## ■ Reference Data

4991A&amp;16196D

| Part Number   | Q (Typ.) |        |        |        |        |
|---------------|----------|--------|--------|--------|--------|
|               | 800MHz   | 900MHz | 1.8GHz | 2.0GHz | 2.4GHz |
| LQG15HS1N0□02 | 32       | 34     | 49     | 52     | 55     |
| LQG15HS1N1□02 | 24       | 26     | 41     | 43     | 47     |
| LQG15HS1N2□02 | 29       | 31     | 47     | 49     | 53     |
| LQG15HS1N3□02 | 35       | 37     | 51     | 53     | 54     |
| LQG15HS1N5□02 | 31       | 32     | 46     | 49     | 51     |
| LQG15HS1N6□02 | 31       | 33     | 48     | 50     | 52     |
| LQG15HS1N8□02 | 31       | 33     | 47     | 48     | 50     |
| LQG15HS2N0□02 | 33       | 35     | 47     | 48     | 49     |
| LQG15HS2N2□02 | 29       | 31     | 44     | 45     | 46     |
| LQG15HS2N4□02 | 28       | 29     | 42     | 44     | 47     |
| LQG15HS2N7□02 | 29       | 30     | 43     | 44     | 47     |
| LQG15HS3N0□02 | 28       | 30     | 42     | 44     | 47     |
| LQG15HS3N3□02 | 29       | 31     | 42     | 43     | 44     |
| LQG15HS3N6□02 | 28       | 29     | 42     | 43     | 46     |
| LQG15HS3N9□02 | 28       | 29     | 40     | 41     | 44     |
| LQG15HS4N3□02 | 27       | 29     | 39     | 40     | 42     |
| LQG15HS4N7□02 | 28       | 29     | 39     | 40     | 41     |
| LQG15HS5N1□02 | 28       | 30     | 39     | 40     | 41     |
| LQG15HS5N6□02 | 28       | 29     | 36     | 36     | 35     |
| LQG15HS6N2□02 | 26       | 28     | 36     | 36     | 36     |
| LQG15HS6N8□02 | 26       | 28     | 36     | 36     | 35     |
| LQG15HS7N5□02 | 27       | 28     | 35     | 35     | 33     |
| LQG15HS8N2□02 | 27       | 28     | 33     | 32     | 29     |
| LQG15HS9N1□02 | 26       | 27     | 33     | 32     | 29     |
| LQG15HS10N□02 | 26       | 28     | 33     | 32     | 29     |
| LQG15HS12N□02 | 25       | 26     | 26     | 24     | 17     |
| LQG15HS15N□02 | 24       | 25     | 22     | 19     | 11     |
| LQG15HS18N□02 | 24       | 25     | 21     | 18     | -      |
| LQG15HS22N□02 | 23       | 24     | 17     | -      | -      |
| LQG15HS27N□02 | 21       | 21     | -      | -      | -      |
| LQG15HS33N□02 | 20       | 20     | -      | -      | -      |
| LQG15HS39N□02 | 19       | 19     | -      | -      | -      |
| LQG15HS47N□02 | 17       | 16     | -      | -      | -      |
| LQG15HS56N□02 | 15       | 13     | -      | -      | -      |
| LQG15HS68N□02 | 12       | 10     | -      | -      | -      |
| LQG15HS82N□02 | 9        | 6      | -      | -      | -      |
| LQG15HSR10□02 | -        | -      | -      | -      | -      |
| LQG15HSR12□02 | -        | -      | -      | -      | -      |

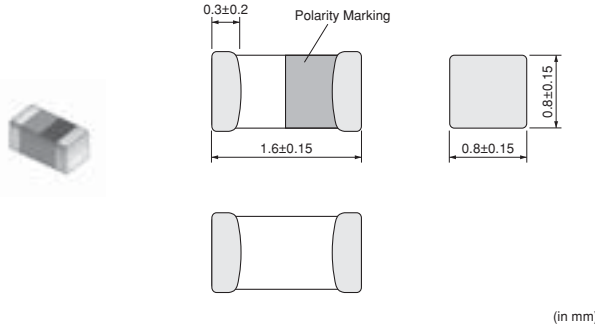
△Note • Please read rating and △CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.  
 • This catalog has only typical specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

# LQG18HN\_00

Series 0603/1608 (inch/mm)

Size Code 0603 (1608) in inch (in mm), Multilayer Type

## ■ Appearance/Dimensions



## ■ Packaging

| Code | Packaging           | Minimum Quantity |
|------|---------------------|------------------|
| D    | ø180mm Paper Taping | 4000             |
| J    | ø330mm Paper Taping | 10000            |
| B    | Packing in Bulk     | 1000             |



Refer to pages 227 to 230 for mounting information.

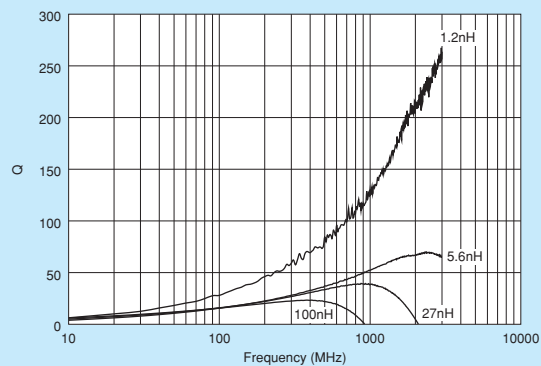
## ■ Rated Value (□: packaging code)

| Part Number    | Inductance   | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |     |
|----------------|--------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|-----|
| LQG18HN1N2S00□ | 1.2nH ±0.3nH | 100MHz                    | 500mA         | 0.10Ω                 | 12       | 100MHz           | 6000MHz                         | Kit |
| LQG18HN1N5S00□ | 1.5nH ±0.3nH | 100MHz                    | 500mA         | 0.10Ω                 | 12       | 100MHz           | 6000MHz                         | Kit |
| LQG18HN1N8S00□ | 1.8nH ±0.3nH | 100MHz                    | 500mA         | 0.10Ω                 | 12       | 100MHz           | 6000MHz                         | Kit |
| LQG18HN2N2S00□ | 2.2nH ±0.3nH | 100MHz                    | 500mA         | 0.10Ω                 | 12       | 100MHz           | 6000MHz                         | Kit |
| LQG18HN2N7S00□ | 2.7nH ±0.3nH | 100MHz                    | 500mA         | 0.15Ω                 | 12       | 100MHz           | 6000MHz                         | Kit |
| LQG18HN3N3S00□ | 3.3nH ±0.3nH | 100MHz                    | 500mA         | 0.15Ω                 | 12       | 100MHz           | 6000MHz                         | Kit |
| LQG18HN3N9S00□ | 3.9nH ±0.3nH | 100MHz                    | 450mA         | 0.15Ω                 | 12       | 100MHz           | 6000MHz                         | Kit |
| LQG18HN4N7S00□ | 4.7nH ±0.3nH | 100MHz                    | 450mA         | 0.20Ω                 | 12       | 100MHz           | 6000MHz                         | Kit |
| LQG18HN5N6S00□ | 5.6nH ±0.3nH | 100MHz                    | 430mA         | 0.20Ω                 | 12       | 100MHz           | 5000MHz                         | Kit |
| LQG18HN6N8J00□ | 6.8nH ±5%    | 100MHz                    | 430mA         | 0.25Ω                 | 12       | 100MHz           | 5000MHz                         | Kit |
| LQG18HN8N2J00□ | 8.2nH ±5%    | 100MHz                    | 400mA         | 0.25Ω                 | 12       | 100MHz           | 4000MHz                         | Kit |
| LQG18HN10NJ00□ | 10nH ±5%     | 100MHz                    | 400mA         | 0.30Ω                 | 12       | 100MHz           | 3500MHz                         | Kit |
| LQG18HN12NJ00□ | 12nH ±5%     | 100MHz                    | 400mA         | 0.35Ω                 | 12       | 100MHz           | 3000MHz                         | Kit |
| LQG18HN15NJ00□ | 15nH ±5%     | 100MHz                    | 350mA         | 0.40Ω                 | 12       | 100MHz           | 2800MHz                         | Kit |
| LQG18HN18NJ00□ | 18nH ±5%     | 100MHz                    | 350mA         | 0.45Ω                 | 12       | 100MHz           | 2600MHz                         | Kit |
| LQG18HN22NJ00□ | 22nH ±5%     | 100MHz                    | 300mA         | 0.50Ω                 | 12       | 100MHz           | 2300MHz                         | Kit |
| LQG18HN27NJ00□ | 27nH ±5%     | 100MHz                    | 300mA         | 0.55Ω                 | 12       | 100MHz           | 2000MHz                         | Kit |
| LQG18HN33NJ00□ | 33nH ±5%     | 100MHz                    | 300mA         | 0.60Ω                 | 12       | 100MHz           | 1700MHz                         | Kit |
| LQG18HN39NJ00□ | 39nH ±5%     | 100MHz                    | 300mA         | 0.65Ω                 | 12       | 100MHz           | 1500MHz                         | Kit |
| LQG18HN47NJ00□ | 47nH ±5%     | 100MHz                    | 300mA         | 0.70Ω                 | 12       | 100MHz           | 1200MHz                         | Kit |
| LQG18HN56NJ00□ | 56nH ±5%     | 100MHz                    | 300mA         | 0.75Ω                 | 12       | 100MHz           | 1100MHz                         | Kit |
| LQG18HN68NJ00□ | 68nH ±5%     | 100MHz                    | 300mA         | 0.80Ω                 | 12       | 100MHz           | 1000MHz                         | Kit |
| LQG18HN82NJ00□ | 82nH ±5%     | 100MHz                    | 300mA         | 0.85Ω                 | 12       | 100MHz           | 900MHz                          | Kit |
| LQG18HNR10J00□ | 100nH ±5%    | 100MHz                    | 300mA         | 0.90Ω                 | 12       | 100MHz           | 800MHz                          | Kit |

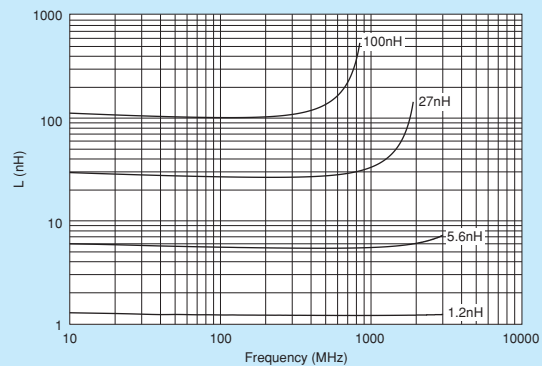
Operating Temperature Range (Self-temperature rise is not included): -40°C~+85°C  
For reflow soldering only.

Continued on the following page.

### ■ Q-Frequency Characteristics (Typ.)



### ■ Inductance-Frequency Characteristics (Typ.)

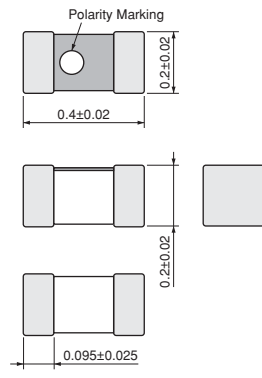


# LQP02TN\_02

Series 01005/0402 (inch/mm)

Size Code 01005 (0402) in inch (in mm)

## ■ Appearance/Dimensions



(in mm)

## ■ Packaging

| Code | Packaging           | Minimum Quantity |
|------|---------------------|------------------|
| D    | ø180mm Paper Taping | 20000            |
| B    | Packing in Bulk     | 500              |



Refer to pages 227 to 230 for mounting information.

## ■ Rated Value (□: packaging code)

| Part Number    | Inductance   | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |     |
|----------------|--------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|-----|
| LQP02TN0N2B02□ | 0.2nH ±0.1nH | 500MHz                    | 320mA         | 0.50Ω                 | -        | -                | 20000MHz                        | Kit |
| LQP02TN0N2C02□ | 0.2nH ±0.2nH | 500MHz                    | 320mA         | 0.50Ω                 | -        | -                | 20000MHz                        |     |
| LQP02TN0N3B02□ | 0.3nH ±0.1nH | 500MHz                    | 320mA         | 0.50Ω                 | -        | -                | 20000MHz                        | Kit |
| LQP02TN0N3C02□ | 0.3nH ±0.2nH | 500MHz                    | 320mA         | 0.50Ω                 | -        | -                | 20000MHz                        |     |
| LQP02TN0N4B02□ | 0.4nH ±0.1nH | 500MHz                    | 320mA         | 0.50Ω                 | 8        | 500MHz           | 18000MHz                        | Kit |
| LQP02TN0N4C02□ | 0.4nH ±0.2nH | 500MHz                    | 320mA         | 0.50Ω                 | 8        | 500MHz           | 18000MHz                        |     |
| LQP02TN0N4S02□ | 0.4nH ±0.3nH | 500MHz                    | 320mA         | 0.50Ω                 | 8        | 500MHz           | 18000MHz                        |     |
| LQP02TN0N5B02□ | 0.5nH ±0.1nH | 500MHz                    | 320mA         | 0.50Ω                 | 8        | 500MHz           | 18000MHz                        | Kit |
| LQP02TN0N5C02□ | 0.5nH ±0.2nH | 500MHz                    | 320mA         | 0.50Ω                 | 8        | 500MHz           | 18000MHz                        |     |
| LQP02TN0N5S02□ | 0.5nH ±0.3nH | 500MHz                    | 320mA         | 0.50Ω                 | 8        | 500MHz           | 18000MHz                        |     |
| LQP02TN0N6B02□ | 0.6nH ±0.1nH | 500MHz                    | 320mA         | 0.50Ω                 | 8        | 500MHz           | 17000MHz                        | Kit |
| LQP02TN0N6C02□ | 0.6nH ±0.2nH | 500MHz                    | 320mA         | 0.50Ω                 | 8        | 500MHz           | 17000MHz                        |     |
| LQP02TN0N6S02□ | 0.6nH ±0.3nH | 500MHz                    | 320mA         | 0.50Ω                 | 8        | 500MHz           | 17000MHz                        |     |
| LQP02TN0N7B02□ | 0.7nH ±0.1nH | 500MHz                    | 320mA         | 0.50Ω                 | 8        | 500MHz           | 16500MHz                        | Kit |
| LQP02TN0N7C02□ | 0.7nH ±0.2nH | 500MHz                    | 320mA         | 0.50Ω                 | 8        | 500MHz           | 16500MHz                        |     |
| LQP02TN0N7S02□ | 0.7nH ±0.3nH | 500MHz                    | 320mA         | 0.50Ω                 | 8        | 500MHz           | 16500MHz                        |     |
| LQP02TN0N8B02□ | 0.8nH ±0.1nH | 500MHz                    | 320mA         | 0.50Ω                 | 8        | 500MHz           | 16500MHz                        | Kit |
| LQP02TN0N8C02□ | 0.8nH ±0.2nH | 500MHz                    | 320mA         | 0.50Ω                 | 8        | 500MHz           | 16500MHz                        |     |
| LQP02TN0N8S02□ | 0.8nH ±0.3nH | 500MHz                    | 320mA         | 0.50Ω                 | 8        | 500MHz           | 16500MHz                        |     |
| LQP02TN0N9B02□ | 0.9nH ±0.1nH | 500MHz                    | 320mA         | 0.50Ω                 | 8        | 500MHz           | 13000MHz                        | Kit |
| LQP02TN0N9C02□ | 0.9nH ±0.2nH | 500MHz                    | 320mA         | 0.50Ω                 | 8        | 500MHz           | 13000MHz                        |     |
| LQP02TN0N9S02□ | 0.9nH ±0.3nH | 500MHz                    | 320mA         | 0.50Ω                 | 8        | 500MHz           | 13000MHz                        |     |
| LQP02TN1N0B02□ | 1.0nH ±0.1nH | 500MHz                    | 220mA         | 0.60Ω                 | 8        | 500MHz           | 13000MHz                        | Kit |
| LQP02TN1N0C02□ | 1.0nH ±0.2nH | 500MHz                    | 220mA         | 0.60Ω                 | 8        | 500MHz           | 13000MHz                        |     |
| LQP02TN1N0S02□ | 1.0nH ±0.3nH | 500MHz                    | 220mA         | 0.60Ω                 | 8        | 500MHz           | 13000MHz                        |     |
| LQP02TN1N1B02□ | 1.1nH ±0.1nH | 500MHz                    | 220mA         | 0.60Ω                 | 8        | 500MHz           | 12500MHz                        | Kit |
| LQP02TN1N1C02□ | 1.1nH ±0.2nH | 500MHz                    | 220mA         | 0.60Ω                 | 8        | 500MHz           | 12500MHz                        |     |
| LQP02TN1N1S02□ | 1.1nH ±0.3nH | 500MHz                    | 220mA         | 0.60Ω                 | 8        | 500MHz           | 12500MHz                        |     |
| LQP02TN1N2B02□ | 1.2nH ±0.1nH | 500MHz                    | 220mA         | 0.60Ω                 | 8        | 500MHz           | 12500MHz                        | Kit |
| LQP02TN1N2C02□ | 1.2nH ±0.2nH | 500MHz                    | 220mA         | 0.60Ω                 | 8        | 500MHz           | 12500MHz                        |     |
| LQP02TN1N2S02□ | 1.2nH ±0.3nH | 500MHz                    | 220mA         | 0.60Ω                 | 8        | 500MHz           | 12500MHz                        |     |
| LQP02TN1N3B02□ | 1.3nH ±0.1nH | 500MHz                    | 220mA         | 0.60Ω                 | 8        | 500MHz           | 11500MHz                        | Kit |

Operating Temperature Range (Self-temperature rise is not included): -55°C~+125°C  
For reflow soldering only.

Continued on the following page.

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• This catalog has only typical specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

| Part Number    | Inductance   | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |     |
|----------------|--------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|-----|
| LQP02TN1N3C02□ | 1.3nH ±0.2nH | 500MHz                    | 220mA         | 0.60Ω                 | 8        | 500MHz           | 11500MHz                        |     |
| LQP02TN1N3S02□ | 1.3nH ±0.3nH | 500MHz                    | 220mA         | 0.60Ω                 | 8        | 500MHz           | 11500MHz                        |     |
| LQP02TN1N4B02□ | 1.4nH ±0.1nH | 500MHz                    | 220mA         | 0.60Ω                 | 8        | 500MHz           | 11500MHz                        | Kit |
| LQP02TN1N4C02□ | 1.4nH ±0.2nH | 500MHz                    | 220mA         | 0.60Ω                 | 8        | 500MHz           | 11500MHz                        |     |
| LQP02TN1N4S02□ | 1.4nH ±0.3nH | 500MHz                    | 220mA         | 0.60Ω                 | 8        | 500MHz           | 11500MHz                        |     |
| LQP02TN1N5B02□ | 1.5nH ±0.1nH | 500MHz                    | 220mA         | 0.60Ω                 | 8        | 500MHz           | 9500MHz                         | Kit |
| LQP02TN1N5C02□ | 1.5nH ±0.2nH | 500MHz                    | 220mA         | 0.60Ω                 | 8        | 500MHz           | 9500MHz                         |     |
| LQP02TN1N5S02□ | 1.5nH ±0.3nH | 500MHz                    | 220mA         | 0.60Ω                 | 8        | 500MHz           | 9500MHz                         |     |
| LQP02TN1N6B02□ | 1.6nH ±0.1nH | 500MHz                    | 220mA         | 0.60Ω                 | 8        | 500MHz           | 9500MHz                         | Kit |
| LQP02TN1N6C02□ | 1.6nH ±0.2nH | 500MHz                    | 220mA         | 0.60Ω                 | 8        | 500MHz           | 9500MHz                         |     |
| LQP02TN1N6S02□ | 1.6nH ±0.3nH | 500MHz                    | 220mA         | 0.60Ω                 | 8        | 500MHz           | 9500MHz                         |     |
| LQP02TN1N7B02□ | 1.7nH ±0.1nH | 500MHz                    | 200mA         | 0.70Ω                 | 8        | 500MHz           | 9500MHz                         | Kit |
| LQP02TN1N7C02□ | 1.7nH ±0.2nH | 500MHz                    | 200mA         | 0.70Ω                 | 8        | 500MHz           | 9500MHz                         |     |
| LQP02TN1N7S02□ | 1.7nH ±0.3nH | 500MHz                    | 200mA         | 0.70Ω                 | 8        | 500MHz           | 9500MHz                         |     |
| LQP02TN1N8B02□ | 1.8nH ±0.1nH | 500MHz                    | 200mA         | 0.70Ω                 | 8        | 500MHz           | 9000MHz                         | Kit |
| LQP02TN1N8C02□ | 1.8nH ±0.2nH | 500MHz                    | 200mA         | 0.70Ω                 | 8        | 500MHz           | 9000MHz                         |     |
| LQP02TN1N8S02□ | 1.8nH ±0.3nH | 500MHz                    | 200mA         | 0.70Ω                 | 8        | 500MHz           | 9000MHz                         |     |
| LQP02TN1N9B02□ | 1.9nH ±0.1nH | 500MHz                    | 200mA         | 0.75Ω                 | 8        | 500MHz           | 9000MHz                         | Kit |
| LQP02TN1N9C02□ | 1.9nH ±0.2nH | 500MHz                    | 200mA         | 0.75Ω                 | 8        | 500MHz           | 9000MHz                         |     |
| LQP02TN1N9S02□ | 1.9nH ±0.3nH | 500MHz                    | 200mA         | 0.75Ω                 | 8        | 500MHz           | 9000MHz                         |     |
| LQP02TN2N0B02□ | 2.0nH ±0.1nH | 500MHz                    | 200mA         | 0.75Ω                 | 8        | 500MHz           | 9000MHz                         | Kit |
| LQP02TN2N0C02□ | 2.0nH ±0.2nH | 500MHz                    | 200mA         | 0.75Ω                 | 8        | 500MHz           | 9000MHz                         |     |
| LQP02TN2N0S02□ | 2.0nH ±0.3nH | 500MHz                    | 200mA         | 0.75Ω                 | 8        | 500MHz           | 9000MHz                         |     |
| LQP02TN2N1B02□ | 2.1nH ±0.1nH | 500MHz                    | 200mA         | 0.75Ω                 | 8        | 500MHz           | 9000MHz                         | Kit |
| LQP02TN2N1C02□ | 2.1nH ±0.2nH | 500MHz                    | 200mA         | 0.75Ω                 | 8        | 500MHz           | 9000MHz                         |     |
| LQP02TN2N1S02□ | 2.1nH ±0.3nH | 500MHz                    | 200mA         | 0.75Ω                 | 8        | 500MHz           | 9000MHz                         |     |
| LQP02TN2N2B02□ | 2.2nH ±0.1nH | 500MHz                    | 200mA         | 0.75Ω                 | 8        | 500MHz           | 7500MHz                         | Kit |
| LQP02TN2N2C02□ | 2.2nH ±0.2nH | 500MHz                    | 200mA         | 0.75Ω                 | 8        | 500MHz           | 7500MHz                         |     |
| LQP02TN2N2S02□ | 2.2nH ±0.3nH | 500MHz                    | 200mA         | 0.75Ω                 | 8        | 500MHz           | 7500MHz                         |     |
| LQP02TN2N3B02□ | 2.3nH ±0.1nH | 500MHz                    | 200mA         | 0.75Ω                 | 8        | 500MHz           | 7500MHz                         | Kit |
| LQP02TN2N3C02□ | 2.3nH ±0.2nH | 500MHz                    | 200mA         | 0.75Ω                 | 8        | 500MHz           | 7500MHz                         |     |
| LQP02TN2N3S02□ | 2.3nH ±0.3nH | 500MHz                    | 200mA         | 0.75Ω                 | 8        | 500MHz           | 7500MHz                         |     |
| LQP02TN2N4B02□ | 2.4nH ±0.1nH | 500MHz                    | 200mA         | 0.75Ω                 | 8        | 500MHz           | 7500MHz                         | Kit |
| LQP02TN2N4C02□ | 2.4nH ±0.2nH | 500MHz                    | 200mA         | 0.75Ω                 | 8        | 500MHz           | 7500MHz                         |     |
| LQP02TN2N4S02□ | 2.4nH ±0.3nH | 500MHz                    | 200mA         | 0.75Ω                 | 8        | 500MHz           | 7500MHz                         |     |
| LQP02TN2N5B02□ | 2.5nH ±0.1nH | 500MHz                    | 200mA         | 0.80Ω                 | 8        | 500MHz           | 7500MHz                         | Kit |
| LQP02TN2N5C02□ | 2.5nH ±0.2nH | 500MHz                    | 200mA         | 0.80Ω                 | 8        | 500MHz           | 7500MHz                         |     |
| LQP02TN2N5S02□ | 2.5nH ±0.3nH | 500MHz                    | 200mA         | 0.80Ω                 | 8        | 500MHz           | 7500MHz                         |     |
| LQP02TN2N6B02□ | 2.6nH ±0.1nH | 500MHz                    | 200mA         | 0.80Ω                 | 8        | 500MHz           | 7500MHz                         | Kit |
| LQP02TN2N6C02□ | 2.6nH ±0.2nH | 500MHz                    | 200mA         | 0.80Ω                 | 8        | 500MHz           | 7500MHz                         |     |
| LQP02TN2N6S02□ | 2.6nH ±0.3nH | 500MHz                    | 200mA         | 0.80Ω                 | 8        | 500MHz           | 7500MHz                         |     |
| LQP02TN2N7B02□ | 2.7nH ±0.1nH | 500MHz                    | 200mA         | 0.80Ω                 | 8        | 500MHz           | 7500MHz                         | Kit |
| LQP02TN2N7C02□ | 2.7nH ±0.2nH | 500MHz                    | 200mA         | 0.80Ω                 | 8        | 500MHz           | 7500MHz                         |     |
| LQP02TN2N7S02□ | 2.7nH ±0.3nH | 500MHz                    | 200mA         | 0.80Ω                 | 8        | 500MHz           | 7500MHz                         |     |
| LQP02TN2N8B02□ | 2.8nH ±0.1nH | 500MHz                    | 200mA         | 1.10Ω                 | 8        | 500MHz           | 7500MHz                         | Kit |
| LQP02TN2N8C02□ | 2.8nH ±0.2nH | 500MHz                    | 200mA         | 1.10Ω                 | 8        | 500MHz           | 7500MHz                         |     |
| LQP02TN2N8S02□ | 2.8nH ±0.3nH | 500MHz                    | 200mA         | 1.10Ω                 | 8        | 500MHz           | 7500MHz                         |     |

Operating Temperature Range (Self-temperature rise is not included): -55°C~+125°C  
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| Part Number    | Inductance   | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |     |
|----------------|--------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|-----|
| LQP02TN2N9B02□ | 2.9nH ±0.1nH | 500MHz                    | 200mA         | 1.10Ω                 | 8        | 500MHz           | 7500MHz                         | Kit |
| LQP02TN2N9C02□ | 2.9nH ±0.2nH | 500MHz                    | 200mA         | 1.10Ω                 | 8        | 500MHz           | 7500MHz                         |     |
| LQP02TN2N9S02□ | 2.9nH ±0.3nH | 500MHz                    | 200mA         | 1.10Ω                 | 8        | 500MHz           | 7500MHz                         |     |
| LQP02TN3N0B02□ | 3.0nH ±0.1nH | 500MHz                    | 200mA         | 1.10Ω                 | 8        | 500MHz           | 7500MHz                         | Kit |
| LQP02TN3N0C02□ | 3.0nH ±0.2nH | 500MHz                    | 200mA         | 1.10Ω                 | 8        | 500MHz           | 7500MHz                         |     |
| LQP02TN3N0S02□ | 3.0nH ±0.3nH | 500MHz                    | 200mA         | 1.10Ω                 | 8        | 500MHz           | 7500MHz                         |     |
| LQP02TN3N1B02□ | 3.1nH ±0.1nH | 500MHz                    | 180mA         | 1.30Ω                 | 8        | 500MHz           | 7500MHz                         | Kit |
| LQP02TN3N1C02□ | 3.1nH ±0.2nH | 500MHz                    | 180mA         | 1.30Ω                 | 8        | 500MHz           | 7500MHz                         |     |
| LQP02TN3N1S02□ | 3.1nH ±0.3nH | 500MHz                    | 180mA         | 1.30Ω                 | 8        | 500MHz           | 7500MHz                         |     |
| LQP02TN3N2B02□ | 3.2nH ±0.1nH | 500MHz                    | 180mA         | 1.30Ω                 | 8        | 500MHz           | 7500MHz                         | Kit |
| LQP02TN3N2C02□ | 3.2nH ±0.2nH | 500MHz                    | 180mA         | 1.30Ω                 | 8        | 500MHz           | 7500MHz                         |     |
| LQP02TN3N2S02□ | 3.2nH ±0.3nH | 500MHz                    | 180mA         | 1.30Ω                 | 8        | 500MHz           | 7500MHz                         |     |
| LQP02TN3N3B02□ | 3.3nH ±0.1nH | 500MHz                    | 180mA         | 1.30Ω                 | 8        | 500MHz           | 7500MHz                         | Kit |
| LQP02TN3N3C02□ | 3.3nH ±0.2nH | 500MHz                    | 180mA         | 1.30Ω                 | 8        | 500MHz           | 7500MHz                         |     |
| LQP02TN3N3S02□ | 3.3nH ±0.3nH | 500MHz                    | 180mA         | 1.30Ω                 | 8        | 500MHz           | 7500MHz                         |     |
| LQP02TN3N4B02□ | 3.4nH ±0.1nH | 500MHz                    | 180mA         | 1.30Ω                 | 8        | 500MHz           | 7500MHz                         | Kit |
| LQP02TN3N4C02□ | 3.4nH ±0.2nH | 500MHz                    | 180mA         | 1.30Ω                 | 8        | 500MHz           | 7500MHz                         |     |
| LQP02TN3N4S02□ | 3.4nH ±0.3nH | 500MHz                    | 180mA         | 1.30Ω                 | 8        | 500MHz           | 7500MHz                         |     |
| LQP02TN3N5B02□ | 3.5nH ±0.1nH | 500MHz                    | 180mA         | 1.30Ω                 | 8        | 500MHz           | 7500MHz                         | Kit |
| LQP02TN3N5C02□ | 3.5nH ±0.2nH | 500MHz                    | 180mA         | 1.30Ω                 | 8        | 500MHz           | 7500MHz                         |     |
| LQP02TN3N5S02□ | 3.5nH ±0.3nH | 500MHz                    | 180mA         | 1.30Ω                 | 8        | 500MHz           | 7500MHz                         |     |
| LQP02TN3N6B02□ | 3.6nH ±0.1nH | 500MHz                    | 180mA         | 1.30Ω                 | 8        | 500MHz           | 7500MHz                         | Kit |
| LQP02TN3N6C02□ | 3.6nH ±0.2nH | 500MHz                    | 180mA         | 1.30Ω                 | 8        | 500MHz           | 7500MHz                         |     |
| LQP02TN3N6S02□ | 3.6nH ±0.3nH | 500MHz                    | 180mA         | 1.30Ω                 | 8        | 500MHz           | 7500MHz                         |     |
| LQP02TN3N7B02□ | 3.7nH ±0.1nH | 500MHz                    | 180mA         | 1.30Ω                 | 8        | 500MHz           | 7500MHz                         | Kit |
| LQP02TN3N7C02□ | 3.7nH ±0.2nH | 500MHz                    | 180mA         | 1.30Ω                 | 8        | 500MHz           | 7500MHz                         |     |
| LQP02TN3N7S02□ | 3.7nH ±0.3nH | 500MHz                    | 180mA         | 1.30Ω                 | 8        | 500MHz           | 7500MHz                         |     |
| LQP02TN3N8B02□ | 3.8nH ±0.1nH | 500MHz                    | 180mA         | 1.30Ω                 | 8        | 500MHz           | 7500MHz                         | Kit |
| LQP02TN3N8C02□ | 3.8nH ±0.2nH | 500MHz                    | 180mA         | 1.30Ω                 | 8        | 500MHz           | 7500MHz                         |     |
| LQP02TN3N8S02□ | 3.8nH ±0.3nH | 500MHz                    | 180mA         | 1.30Ω                 | 8        | 500MHz           | 7500MHz                         |     |
| LQP02TN3N9B02□ | 3.9nH ±0.1nH | 500MHz                    | 180mA         | 1.30Ω                 | 8        | 500MHz           | 7500MHz                         | Kit |
| LQP02TN3N9C02□ | 3.9nH ±0.2nH | 500MHz                    | 180mA         | 1.30Ω                 | 8        | 500MHz           | 7500MHz                         |     |
| LQP02TN3N9S02□ | 3.9nH ±0.3nH | 500MHz                    | 180mA         | 1.30Ω                 | 8        | 500MHz           | 7500MHz                         |     |
| LQP02TN4N0B02□ | 4.0nH ±0.1nH | 500MHz                    | 180mA         | 1.30Ω                 | 8        | 500MHz           | 7500MHz                         | Kit |
| LQP02TN4N0C02□ | 4.0nH ±0.2nH | 500MHz                    | 180mA         | 1.30Ω                 | 8        | 500MHz           | 7500MHz                         |     |
| LQP02TN4N0S02□ | 4.0nH ±0.3nH | 500MHz                    | 180mA         | 1.30Ω                 | 8        | 500MHz           | 7500MHz                         |     |
| LQP02TN4N1B02□ | 4.1nH ±0.1nH | 500MHz                    | 180mA         | 1.30Ω                 | 8        | 500MHz           | 7500MHz                         | Kit |
| LQP02TN4N1C02□ | 4.1nH ±0.2nH | 500MHz                    | 180mA         | 1.30Ω                 | 8        | 500MHz           | 7500MHz                         |     |
| LQP02TN4N1S02□ | 4.1nH ±0.3nH | 500MHz                    | 180mA         | 1.30Ω                 | 8        | 500MHz           | 7500MHz                         |     |
| LQP02TN4N2B02□ | 4.2nH ±0.1nH | 500MHz                    | 180mA         | 1.30Ω                 | 8        | 500MHz           | 7000MHz                         | Kit |
| LQP02TN4N2C02□ | 4.2nH ±0.2nH | 500MHz                    | 180mA         | 1.30Ω                 | 8        | 500MHz           | 7000MHz                         |     |
| LQP02TN4N2S02□ | 4.2nH ±0.3nH | 500MHz                    | 180mA         | 1.30Ω                 | 8        | 500MHz           | 7000MHz                         |     |
| LQP02TN4N3H02□ | 4.3nH ±3%    | 500MHz                    | 180mA         | 1.30Ω                 | 8        | 500MHz           | 7000MHz                         | Kit |
| LQP02TN4N3J02□ | 4.3nH ±5%    | 500MHz                    | 180mA         | 1.30Ω                 | 8        | 500MHz           | 7000MHz                         |     |
| LQP02TN4N3S02□ | 4.3nH ±0.3nH | 500MHz                    | 180mA         | 1.30Ω                 | 8        | 500MHz           | 7000MHz                         |     |
| LQP02TN4N7H02□ | 4.7nH ±3%    | 500MHz                    | 160mA         | 1.50Ω                 | 8        | 500MHz           | 6500MHz                         | Kit |
| LQP02TN4N7J02□ | 4.7nH ±5%    | 500MHz                    | 160mA         | 1.50Ω                 | 8        | 500MHz           | 6500MHz                         |     |

Operating Temperature Range (Self-temperature rise is not included): -55°C~+125°C  
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Continued on the following page. 

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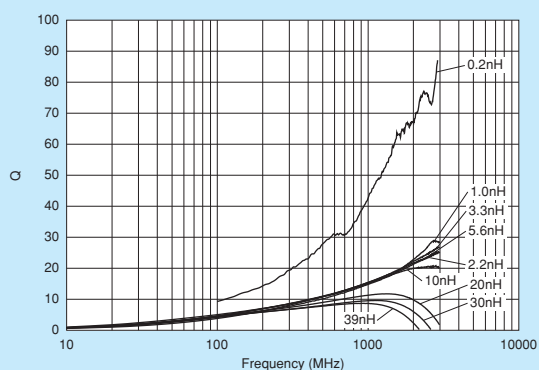
| Part Number    | Inductance   | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |     |
|----------------|--------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|-----|
| LQP02TN4N7S02□ | 4.7nH ±0.3nH | 500MHz                    | 160mA         | 1.50Ω                 | 8        | 500MHz           | 6500MHz                         |     |
| LQP02TN5N1H02□ | 5.1nH ±3%    | 500MHz                    | 160mA         | 1.50Ω                 | 8        | 500MHz           | 6500MHz                         | Kit |
| LQP02TN5N1J02□ | 5.1nH ±5%    | 500MHz                    | 160mA         | 1.50Ω                 | 8        | 500MHz           | 6500MHz                         |     |
| LQP02TN5N1S02□ | 5.1nH ±0.3nH | 500MHz                    | 160mA         | 1.50Ω                 | 8        | 500MHz           | 6500MHz                         |     |
| LQP02TN5N6H02□ | 5.6nH ±3%    | 500MHz                    | 140mA         | 1.80Ω                 | 8        | 500MHz           | 6000MHz                         | Kit |
| LQP02TN5N6J02□ | 5.6nH ±5%    | 500MHz                    | 140mA         | 1.80Ω                 | 8        | 500MHz           | 6000MHz                         |     |
| LQP02TN5N6S02□ | 5.6nH ±0.3nH | 500MHz                    | 140mA         | 1.80Ω                 | 8        | 500MHz           | 6000MHz                         |     |
| LQP02TN6N2H02□ | 6.2nH ±3%    | 500MHz                    | 140mA         | 1.80Ω                 | 8        | 500MHz           | 5500MHz                         | Kit |
| LQP02TN6N2J02□ | 6.2nH ±5%    | 500MHz                    | 140mA         | 1.80Ω                 | 8        | 500MHz           | 5500MHz                         |     |
| LQP02TN6N8H02□ | 6.8nH ±3%    | 500MHz                    | 140mA         | 2.00Ω                 | 8        | 500MHz           | 5500MHz                         | Kit |
| LQP02TN6N8J02□ | 6.8nH ±5%    | 500MHz                    | 140mA         | 2.00Ω                 | 8        | 500MHz           | 5500MHz                         |     |
| LQP02TN7N5H02□ | 7.5nH ±3%    | 500MHz                    | 140mA         | 2.00Ω                 | 8        | 500MHz           | 4500MHz                         | Kit |
| LQP02TN7N5J02□ | 7.5nH ±5%    | 500MHz                    | 140mA         | 2.00Ω                 | 8        | 500MHz           | 4500MHz                         |     |
| LQP02TN8N2H02□ | 8.2nH ±3%    | 500MHz                    | 140mA         | 2.10Ω                 | 8        | 500MHz           | 4500MHz                         | Kit |
| LQP02TN8N2J02□ | 8.2nH ±5%    | 500MHz                    | 140mA         | 2.10Ω                 | 8        | 500MHz           | 4500MHz                         |     |
| LQP02TN9N1H02□ | 9.1nH ±3%    | 500MHz                    | 140mA         | 2.10Ω                 | 8        | 500MHz           | 4000MHz                         | Kit |
| LQP02TN9N1J02□ | 9.1nH ±5%    | 500MHz                    | 140mA         | 2.10Ω                 | 8        | 500MHz           | 4000MHz                         |     |
| LQP02TN10NH02□ | 10nH ±3%     | 500MHz                    | 140mA         | 2.50Ω                 | 8        | 500MHz           | 4000MHz                         | Kit |
| LQP02TN10NJ02□ | 10nH ±5%     | 500MHz                    | 140mA         | 2.50Ω                 | 8        | 500MHz           | 4000MHz                         |     |
| LQP02TN11NH02□ | 11nH ±3%     | 500MHz                    | 140mA         | 2.80Ω                 | 7        | 500MHz           | 3500MHz                         | Kit |
| LQP02TN11NJ02□ | 11nH ±5%     | 500MHz                    | 140mA         | 2.80Ω                 | 7        | 500MHz           | 3500MHz                         |     |
| LQP02TN12NH02□ | 12nH ±3%     | 500MHz                    | 140mA         | 2.80Ω                 | 7        | 500MHz           | 3500MHz                         | Kit |
| LQP02TN12NJ02□ | 12nH ±5%     | 500MHz                    | 140mA         | 2.80Ω                 | 7        | 500MHz           | 3500MHz                         |     |
| LQP02TN13NH02□ | 13nH ±3%     | 500MHz                    | 140mA         | 3.20Ω                 | 7        | 500MHz           | 3000MHz                         | Kit |
| LQP02TN13NJ02□ | 13nH ±5%     | 500MHz                    | 140mA         | 3.20Ω                 | 7        | 500MHz           | 3000MHz                         |     |
| LQP02TN15NH02□ | 15nH ±3%     | 500MHz                    | 140mA         | 3.20Ω                 | 7        | 500MHz           | 3000MHz                         | Kit |
| LQP02TN15NJ02□ | 15nH ±5%     | 500MHz                    | 140mA         | 3.20Ω                 | 7        | 500MHz           | 3000MHz                         |     |
| LQP02TN16NH02□ | 16nH ±3%     | 500MHz                    | 140mA         | 3.50Ω                 | 7        | 500MHz           | 2500MHz                         | Kit |
| LQP02TN16NJ02□ | 16nH ±5%     | 500MHz                    | 140mA         | 3.50Ω                 | 7        | 500MHz           | 2500MHz                         |     |
| LQP02TN18NH02□ | 18nH ±3%     | 500MHz                    | 140mA         | 3.50Ω                 | 7        | 500MHz           | 2500MHz                         | Kit |
| LQP02TN18NJ02□ | 18nH ±5%     | 500MHz                    | 140mA         | 3.50Ω                 | 7        | 500MHz           | 2500MHz                         |     |
| LQP02TN20NH02□ | 20nH ±3%     | 500MHz                    | 120mA         | 5.00Ω                 | 6        | 500MHz           | 2300MHz                         | Kit |
| LQP02TN20NJ02□ | 20nH ±5%     | 500MHz                    | 120mA         | 5.00Ω                 | 6        | 500MHz           | 2300MHz                         |     |
| LQP02TN22NH02□ | 22nH ±3%     | 500MHz                    | 120mA         | 5.00Ω                 | 6        | 500MHz           | 2300MHz                         | New |
| LQP02TN22NJ02□ | 22nH ±5%     | 500MHz                    | 120mA         | 5.00Ω                 | 6        | 500MHz           | 2300MHz                         | New |
| LQP02TN24NH02□ | 24nH ±3%     | 500MHz                    | 120mA         | 5.50Ω                 | 6        | 500MHz           | 2000MHz                         | New |
| LQP02TN24NJ02□ | 24nH ±5%     | 500MHz                    | 120mA         | 5.50Ω                 | 6        | 500MHz           | 2000MHz                         | New |
| LQP02TN27NH02□ | 27nH ±3%     | 500MHz                    | 120mA         | 5.50Ω                 | 6        | 500MHz           | 2000MHz                         | New |
| LQP02TN27NJ02□ | 27nH ±5%     | 500MHz                    | 120mA         | 5.50Ω                 | 6        | 500MHz           | 2000MHz                         | New |
| LQP02TN30NH02□ | 30nH ±3%     | 500MHz                    | 90mA          | 6.50Ω                 | 6        | 500MHz           | 1800MHz                         | New |
| LQP02TN30NJ02□ | 30nH ±5%     | 500MHz                    | 90mA          | 6.50Ω                 | 6        | 500MHz           | 1800MHz                         | New |
| LQP02TN33NH02□ | 33nH ±3%     | 300MHz                    | 90mA          | 6.50Ω                 | 4        | 300MHz           | 1800MHz                         | New |
| LQP02TN33NJ02□ | 33nH ±5%     | 300MHz                    | 90mA          | 6.50Ω                 | 4        | 300MHz           | 1800MHz                         | New |
| LQP02TN36NH02□ | 36nH ±3%     | 300MHz                    | 90mA          | 7.00Ω                 | 4        | 300MHz           | 1600MHz                         | New |
| LQP02TN36NJ02□ | 36nH ±5%     | 300MHz                    | 90mA          | 7.00Ω                 | 4        | 300MHz           | 1600MHz                         | New |
| LQP02TN39NH02□ | 39nH ±3%     | 300MHz                    | 90mA          | 7.00Ω                 | 4        | 300MHz           | 1600MHz                         | New |
| LQP02TN39NJ02□ | 39nH ±5%     | 300MHz                    | 90mA          | 7.00Ω                 | 4        | 300MHz           | 1600MHz                         | New |

Operating Temperature Range (Self-temperature rise is not included): -55°C~+125°C  
For reflow soldering only.

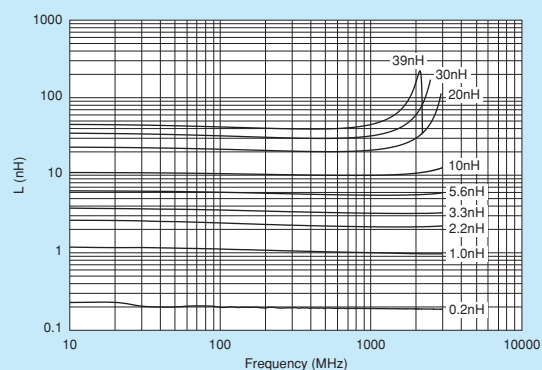
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△Note • Please read rating and △CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.  
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## ■ Q-Frequency Characteristics (Typ.)



## ■ Inductance-Frequency Characteristics (Typ.)



## ■ Reference Data

4991A&amp;16196D

| Part Number   | Q (Typ.) |        |        |        |        |
|---------------|----------|--------|--------|--------|--------|
|               | 800MHz   | 900MHz | 1.8GHz | 2.0GHz | 2.4GHz |
| LQP02TN0N2□02 | 20       | 40     | 69     | 65     | 74     |
| LQP02TN0N3□02 | 21       | 24     | 37     | 38     | 43     |
| LQP02TN0N4□02 | 13       | 14     | 22     | 24     | 26     |
| LQP02TN0N5□02 | 13       | 14     | 23     | 24     | 27     |
| LQP02TN0N6□02 | 15       | 16     | 25     | 26     | 32     |
| LQP02TN0N7□02 | 14       | 15     | 23     | 24     | 27     |
| LQP02TN0N8□02 | 14       | 15     | 22     | 24     | 27     |
| LQP02TN0N9□02 | 15       | 16     | 23     | 25     | 29     |
| LQP02TN1N0□02 | 13       | 14     | 21     | 23     | 26     |
| LQP02TN1N1□02 | 14       | 15     | 23     | 25     | 28     |
| LQP02TN1N2□02 | 14       | 15     | 22     | 23     | 26     |
| LQP02TN1N3□02 | 14       | 15     | 23     | 24     | 27     |
| LQP02TN1N4□02 | 14       | 15     | 23     | 24     | 27     |
| LQP02TN1N5□02 | 13       | 14     | 21     | 23     | 25     |
| LQP02TN1N6□02 | 14       | 15     | 22     | 24     | 26     |
| LQP02TN1N7□02 | 13       | 14     | 21     | 23     | 25     |
| LQP02TN1N8□02 | 14       | 15     | 22     | 23     | 26     |
| LQP02TN1N9□02 | 14       | 15     | 22     | 23     | 26     |
| LQP02TN2N0□02 | 14       | 15     | 22     | 24     | 26     |
| LQP02TN2N1□02 | 14       | 15     | 22     | 23     | 25     |
| LQP02TN2N2□02 | 13       | 14     | 20     | 21     | 23     |
| LQP02TN2N3□02 | 13       | 14     | 21     | 22     | 24     |
| LQP02TN2N4□02 | 13       | 14     | 21     | 22     | 24     |
| LQP02TN2N5□02 | 14       | 14     | 21     | 22     | 23     |
| LQP02TN2N6□02 | 14       | 15     | 22     | 23     | 25     |
| LQP02TN2N7□02 | 14       | 14     | 22     | 23     | 25     |
| LQP02TN2N8□02 | 11       | 12     | 18     | 19     | 21     |
| LQP02TN2N9□02 | 13       | 14     | 20     | 21     | 23     |
| LQP02TN3N0□02 | 13       | 14     | 20     | 22     | 23     |
| LQP02TN3N1□02 | 12       | 13     | 20     | 21     | 23     |
| LQP02TN3N2□02 | 13       | 13     | 20     | 21     | 23     |
| LQP02TN3N3□02 | 14       | 14     | 21     | 22     | 24     |
| LQP02TN3N4□02 | 13       | 14     | 20     | 22     | 23     |

Continued on the following page.

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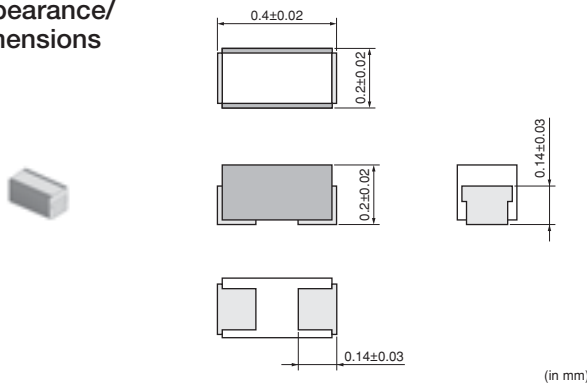
| Part Number   | Q (Typ.) |        |        |        |        |
|---------------|----------|--------|--------|--------|--------|
|               | 800MHz   | 900MHz | 1.8GHz | 2.0GHz | 2.4GHz |
| LQP02TN3N5□02 | 13       | 14     | 20     | 22     | 23     |
| LQP02TN3N6□02 | 13       | 14     | 21     | 22     | 24     |
| LQP02TN3N7□02 | 13       | 14     | 21     | 22     | 23     |
| LQP02TN3N8□02 | 13       | 14     | 20     | 21     | 23     |
| LQP02TN3N9□02 | 13       | 14     | 20     | 22     | 23     |
| LQP02TN4N0□02 | 13       | 14     | 20     | 21     | 23     |
| LQP02TN4N1□02 | 13       | 14     | 20     | 21     | 23     |
| LQP02TN4N2□02 | 14       | 14     | 20     | 22     | 23     |
| LQP02TN4N3□02 | 13       | 14     | 21     | 22     | 24     |
| LQP02TN4N7□02 | 13       | 14     | 20     | 21     | 23     |
| LQP02TN5N1□02 | 14       | 15     | 21     | 22     | 24     |
| LQP02TN5N6□02 | 14       | 14     | 20     | 22     | 23     |
| LQP02TN6N2□02 | 13       | 14     | 20     | 21     | 22     |
| LQP02TN6N8□02 | 13       | 14     | 20     | 21     | 22     |
| LQP02TN7N5□02 | 14       | 15     | 21     | 22     | 23     |
| LQP02TN8N2□02 | 13       | 14     | 20     | 20     | 22     |
| LQP02TN9N1□02 | 13       | 14     | 18     | 19     | 19     |
| LQP02TN10N□02 | 14       | 14     | 19     | 20     | 20     |
| LQP02TN11N□02 | 14       | 14     | 18     | 18     | 17     |
| LQP02TN12N□02 | 14       | 15     | 18     | 18     | 18     |
| LQP02TN13N□02 | 14       | 15     | 19     | 19     | 18     |
| LQP02TN15N□02 | 15       | 15     | 18     | 18     | 16     |
| LQP02TN16N□02 | 13       | 13     | 15     | 14     | 12     |
| LQP02TN18N□02 | 12       | 13     | 14     | 13     | 11     |
| LQP02TN20N□02 | 10       | 11     | 11     | 10     | 7      |
| LQP02TN22N□02 | 10       | 10     | 10     | 9      | 7      |
| LQP02TN24N□02 | 10       | 10     | 10     | 9      | 6      |
| LQP02TN27N□02 | 10       | 10     | 8      | 7      | 3      |
| LQP02TN30N□02 | 9        | 9      | 7      | 6      | -      |
| LQP02TN33N□02 | 10       | 10     | 7      | 5      | -      |
| LQP02TN36N□02 | 8        | 9      | 6      | 4      | -      |
| LQP02TN39N□02 | 8        | 9      | 4      | 2      | -      |

# LQP02TQ\_02

Series 01005/0402 (inch/mm)

Size Code 01005 (0402) in inch (in mm), Largest Q

## ■ Appearance/Dimensions



## ■ Packaging

| Code | Packaging           | Minimum Quantity |
|------|---------------------|------------------|
| D    | ø180mm Paper Taping | 20000            |
| B    | Packing in Bulk     | 500              |



Refer to pages 227 to 230 for mounting information.

## ■ Rated Value (□: packaging code)

| Part Number    | Inductance   | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |     |
|----------------|--------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|-----|
| LQP02TQ0N4B02□ | 0.4nH ±0.1nH | 500MHz                    | 990mA         | 0.1Ω                  | 10       | 500MHz           | 16600MHz                        | New |
| LQP02TQ0N4C02□ | 0.4nH ±0.2nH | 500MHz                    | 990mA         | 0.1Ω                  | 10       | 500MHz           | 16600MHz                        | New |
| LQP02TQ0N5B02□ | 0.5nH ±0.1nH | 500MHz                    | 730mA         | 0.1Ω                  | 10       | 500MHz           | 16600MHz                        | New |
| LQP02TQ0N5C02□ | 0.5nH ±0.2nH | 500MHz                    | 730mA         | 0.1Ω                  | 10       | 500MHz           | 16600MHz                        | New |
| LQP02TQ0N6B02□ | 0.6nH ±0.1nH | 500MHz                    | 730mA         | 0.1Ω                  | 10       | 500MHz           | 16600MHz                        | New |
| LQP02TQ0N6C02□ | 0.6nH ±0.2nH | 500MHz                    | 730mA         | 0.1Ω                  | 10       | 500MHz           | 16600MHz                        | New |
| LQP02TQ0N7B02□ | 0.7nH ±0.1nH | 500MHz                    | 630mA         | 0.15Ω                 | 10       | 500MHz           | 16600MHz                        | New |
| LQP02TQ0N7C02□ | 0.7nH ±0.2nH | 500MHz                    | 630mA         | 0.15Ω                 | 10       | 500MHz           | 16600MHz                        | New |
| LQP02TQ0N8B02□ | 0.8nH ±0.1nH | 500MHz                    | 630mA         | 0.15Ω                 | 10       | 500MHz           | 16600MHz                        | New |
| LQP02TQ0N8C02□ | 0.8nH ±0.2nH | 500MHz                    | 630mA         | 0.15Ω                 | 10       | 500MHz           | 16600MHz                        | New |
| LQP02TQ0N9B02□ | 0.9nH ±0.1nH | 500MHz                    | 580mA         | 0.15Ω                 | 10       | 500MHz           | 16600MHz                        | New |
| LQP02TQ0N9C02□ | 0.9nH ±0.2nH | 500MHz                    | 580mA         | 0.15Ω                 | 10       | 500MHz           | 16600MHz                        | New |
| LQP02TQ1N0B02□ | 1.0nH ±0.1nH | 500MHz                    | 580mA         | 0.15Ω                 | 10       | 500MHz           | 16600MHz                        | New |
| LQP02TQ1N0C02□ | 1.0nH ±0.2nH | 500MHz                    | 580mA         | 0.15Ω                 | 10       | 500MHz           | 16600MHz                        | New |
| LQP02TQ1N1B02□ | 1.1nH ±0.1nH | 500MHz                    | 570mA         | 0.2Ω                  | 10       | 500MHz           | 16600MHz                        | New |
| LQP02TQ1N1C02□ | 1.1nH ±0.2nH | 500MHz                    | 570mA         | 0.2Ω                  | 10       | 500MHz           | 16600MHz                        | New |
| LQP02TQ1N2B02□ | 1.2nH ±0.1nH | 500MHz                    | 550mA         | 0.2Ω                  | 10       | 500MHz           | 16600MHz                        | New |
| LQP02TQ1N2C02□ | 1.2nH ±0.2nH | 500MHz                    | 550mA         | 0.2Ω                  | 10       | 500MHz           | 16600MHz                        | New |
| LQP02TQ1N3B02□ | 1.3nH ±0.1nH | 500MHz                    | 400mA         | 0.2Ω                  | 10       | 500MHz           | 15000MHz                        | New |
| LQP02TQ1N3C02□ | 1.3nH ±0.2nH | 500MHz                    | 400mA         | 0.2Ω                  | 10       | 500MHz           | 15000MHz                        | New |
| LQP02TQ1N5B02□ | 1.5nH ±0.1nH | 500MHz                    | 400mA         | 0.2Ω                  | 10       | 500MHz           | 15000MHz                        | New |
| LQP02TQ1N5C02□ | 1.5nH ±0.2nH | 500MHz                    | 400mA         | 0.2Ω                  | 10       | 500MHz           | 15000MHz                        | New |
| LQP02TQ1N6B02□ | 1.6nH ±0.1nH | 500MHz                    | 390mA         | 0.3Ω                  | 10       | 500MHz           | 15000MHz                        | New |
| LQP02TQ1N6C02□ | 1.6nH ±0.2nH | 500MHz                    | 390mA         | 0.3Ω                  | 10       | 500MHz           | 15000MHz                        | New |
| LQP02TQ1N8B02□ | 1.8nH ±0.1nH | 500MHz                    | 380mA         | 0.3Ω                  | 10       | 500MHz           | 15000MHz                        | New |
| LQP02TQ1N8C02□ | 1.8nH ±0.2nH | 500MHz                    | 380mA         | 0.3Ω                  | 10       | 500MHz           | 15000MHz                        | New |
| LQP02TQ2N0B02□ | 2.0nH ±0.1nH | 500MHz                    | 380mA         | 0.3Ω                  | 10       | 500MHz           | 13000MHz                        | New |
| LQP02TQ2N0C02□ | 2.0nH ±0.2nH | 500MHz                    | 380mA         | 0.3Ω                  | 10       | 500MHz           | 13000MHz                        | New |
| LQP02TQ2N2B02□ | 2.2nH ±0.1nH | 500MHz                    | 380mA         | 0.3Ω                  | 10       | 500MHz           | 13000MHz                        | New |
| LQP02TQ2N2C02□ | 2.2nH ±0.2nH | 500MHz                    | 380mA         | 0.3Ω                  | 10       | 500MHz           | 13000MHz                        | New |
| LQP02TQ2N4B02□ | 2.4nH ±0.1nH | 500MHz                    | 370mA         | 0.4Ω                  | 10       | 500MHz           | 13000MHz                        | New |
| LQP02TQ2N4C02□ | 2.4nH ±0.2nH | 500MHz                    | 370mA         | 0.4Ω                  | 10       | 500MHz           | 13000MHz                        | New |

Operating Temperature Range (Self-temperature rise is not included): -55°C~+125°C  
For reflow soldering only.

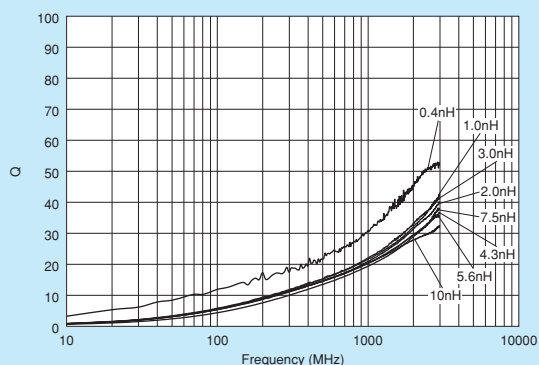
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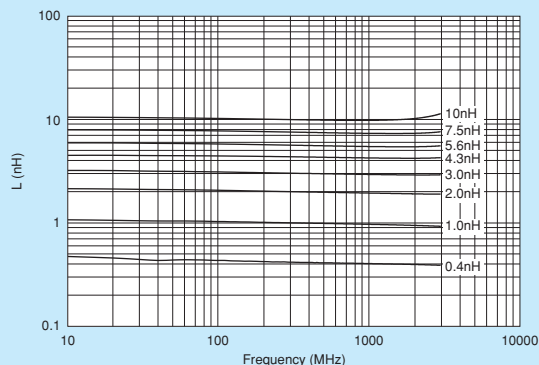
| Part Number    | Inductance         | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |     |
|----------------|--------------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|-----|
| LQP02TQ2N7B02□ | 2.7nH $\pm 0.1$ nH | 500MHz                    | 370mA         | 0.4 $\Omega$          | 10       | 500MHz           | 11500MHz                        | New |
| LQP02TQ2N7C02□ | 2.7nH $\pm 0.2$ nH | 500MHz                    | 370mA         | 0.4 $\Omega$          | 10       | 500MHz           | 11500MHz                        | New |
| LQP02TQ3N0B02□ | 3.0nH $\pm 0.1$ nH | 500MHz                    | 360mA         | 0.45 $\Omega$         | 10       | 500MHz           | 10000MHz                        | New |
| LQP02TQ3N0C02□ | 3.0nH $\pm 0.2$ nH | 500MHz                    | 360mA         | 0.45 $\Omega$         | 10       | 500MHz           | 10000MHz                        | New |
| LQP02TQ3N3B02□ | 3.3nH $\pm 0.1$ nH | 500MHz                    | 290mA         | 0.9 $\Omega$          | 10       | 500MHz           | 10000MHz                        | New |
| LQP02TQ3N3C02□ | 3.3nH $\pm 0.2$ nH | 500MHz                    | 290mA         | 0.9 $\Omega$          | 10       | 500MHz           | 10000MHz                        | New |
| LQP02TQ3N6B02□ | 3.6nH $\pm 0.1$ nH | 500MHz                    | 280mA         | 1 $\Omega$            | 10       | 500MHz           | 9700MHz                         | New |
| LQP02TQ3N6C02□ | 3.6nH $\pm 0.2$ nH | 500MHz                    | 280mA         | 1 $\Omega$            | 10       | 500MHz           | 9700MHz                         | New |
| LQP02TQ3N9B02□ | 3.9nH $\pm 0.1$ nH | 500MHz                    | 270mA         | 1 $\Omega$            | 10       | 500MHz           | 9000MHz                         | New |
| LQP02TQ3N9C02□ | 3.9nH $\pm 0.2$ nH | 500MHz                    | 270mA         | 1 $\Omega$            | 10       | 500MHz           | 9000MHz                         | New |
| LQP02TQ4N3H02□ | 4.3nH $\pm 3\%$    | 500MHz                    | 270mA         | 1 $\Omega$            | 10       | 500MHz           | 9000MHz                         | New |
| LQP02TQ4N3J02□ | 4.3nH $\pm 5\%$    | 500MHz                    | 270mA         | 1 $\Omega$            | 10       | 500MHz           | 9000MHz                         | New |
| LQP02TQ4N7H02□ | 4.7nH $\pm 3\%$    | 500MHz                    | 270mA         | 1 $\Omega$            | 10       | 500MHz           | 8500MHz                         | New |
| LQP02TQ4N7J02□ | 4.7nH $\pm 5\%$    | 500MHz                    | 270mA         | 1 $\Omega$            | 10       | 500MHz           | 8500MHz                         | New |
| LQP02TQ5N1H02□ | 5.1nH $\pm 3\%$    | 500MHz                    | 250mA         | 1.2 $\Omega$          | 10       | 500MHz           | 7800MHz                         | New |
| LQP02TQ5N1J02□ | 5.1nH $\pm 5\%$    | 500MHz                    | 250mA         | 1.2 $\Omega$          | 10       | 500MHz           | 7800MHz                         | New |
| LQP02TQ5N6H02□ | 5.6nH $\pm 3\%$    | 500MHz                    | 230mA         | 1.3 $\Omega$          | 10       | 500MHz           | 7800MHz                         | New |
| LQP02TQ5N6J02□ | 5.6nH $\pm 5\%$    | 500MHz                    | 230mA         | 1.3 $\Omega$          | 10       | 500MHz           | 7800MHz                         | New |
| LQP02TQ6N2H02□ | 6.2nH $\pm 3\%$    | 500MHz                    | 220mA         | 1.3 $\Omega$          | 10       | 500MHz           | 7200MHz                         | New |
| LQP02TQ6N2J02□ | 6.2nH $\pm 5\%$    | 500MHz                    | 220mA         | 1.3 $\Omega$          | 10       | 500MHz           | 7200MHz                         | New |
| LQP02TQ6N8H02□ | 6.8nH $\pm 3\%$    | 500MHz                    | 210mA         | 1.4 $\Omega$          | 10       | 500MHz           | 6600MHz                         | New |
| LQP02TQ6N8J02□ | 6.8nH $\pm 5\%$    | 500MHz                    | 210mA         | 1.4 $\Omega$          | 10       | 500MHz           | 6600MHz                         | New |
| LQP02TQ7N5H02□ | 7.5nH $\pm 3\%$    | 500MHz                    | 200mA         | 1.5 $\Omega$          | 10       | 500MHz           | 6600MHz                         | New |
| LQP02TQ7N5J02□ | 7.5nH $\pm 5\%$    | 500MHz                    | 200mA         | 1.5 $\Omega$          | 10       | 500MHz           | 6600MHz                         | New |
| LQP02TQ8N2H02□ | 8.2nH $\pm 3\%$    | 500MHz                    | 190mA         | 1.6 $\Omega$          | 10       | 500MHz           | 6600MHz                         | New |
| LQP02TQ8N2J02□ | 8.2nH $\pm 5\%$    | 500MHz                    | 190mA         | 1.6 $\Omega$          | 10       | 500MHz           | 6600MHz                         | New |
| LQP02TQ9N1H02□ | 9.1nH $\pm 3\%$    | 500MHz                    | 170mA         | 1.7 $\Omega$          | 10       | 500MHz           | 5900MHz                         | New |
| LQP02TQ9N1J02□ | 9.1nH $\pm 5\%$    | 500MHz                    | 170mA         | 1.7 $\Omega$          | 10       | 500MHz           | 5900MHz                         | New |
| LQP02TQ10NH02□ | 10nH $\pm 3\%$     | 500MHz                    | 170mA         | 1.7 $\Omega$          | 10       | 500MHz           | 5500MHz                         | New |
| LQP02TQ10NJ02□ | 10nH $\pm 5\%$     | 500MHz                    | 170mA         | 1.7 $\Omega$          | 10       | 500MHz           | 5500MHz                         | New |

Operating Temperature Range (Self-temperature rise is not included): -55°C~+125°C  
For reflow soldering only.

■ Q-Frequency Characteristics (Typ.)



■ Inductance-Frequency Characteristics (Typ.)



Continued on the following page.

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## ■ Reference Data

4991A+16196D

| Part Number | Q (Typ.) |        |        |        |        |
|-------------|----------|--------|--------|--------|--------|
|             | 800MHz   | 900MHz | 1.8GHz | 2.0GHz | 2.4GHz |
| LQP02TQ0N4  | 27       | 28     | 43     | 45     | 50     |
| LQP02TQ0N5  | 18       | 20     | 32     | 34     | 39     |
| LQP02TQ0N6  | 19       | 21     | 36     | 38     | 43     |
| LQP02TQ0N7  | 19       | 21     | 35     | 37     | 42     |
| LQP02TQ0N8  | 20       | 21     | 32     | 34     | 38     |
| LQP02TQ0N9  | 19       | 20     | 33     | 34     | 38     |
| LQP02TQ1N0  | 19       | 20     | 31     | 32     | 37     |
| LQP02TQ1N1  | 19       | 21     | 31     | 32     | 36     |
| LQP02TQ1N2  | 20       | 21     | 31     | 32     | 37     |
| LQP02TQ1N3  | 18       | 19     | 29     | 30     | 34     |
| LQP02TQ1N5  | 18       | 19     | 29     | 30     | 34     |
| LQP02TQ1N6  | 18       | 19     | 29     | 31     | 36     |
| LQP02TQ1N8  | 18       | 20     | 29     | 30     | 35     |
| LQP02TQ2N0  | 18       | 20     | 29     | 31     | 34     |
| LQP02TQ2N2  | 20       | 21     | 31     | 33     | 38     |
| LQP02TQ2N4  | 20       | 21     | 31     | 33     | 38     |
| LQP02TQ2N7  | 19       | 20     | 30     | 32     | 37     |
| LQP02TQ3N0  | 19       | 20     | 30     | 32     | 36     |
| LQP02TQ3N3  | 17       | 18     | 27     | 29     | 33     |
| LQP02TQ3N6  | 17       | 18     | 27     | 29     | 32     |
| LQP02TQ3N9  | 17       | 18     | 26     | 28     | 31     |
| LQP02TQ4N3  | 17       | 18     | 27     | 29     | 32     |
| LQP02TQ4N7  | 18       | 19     | 28     | 29     | 32     |
| LQP02TQ5N1  | 18       | 19     | 27     | 29     | 32     |
| LQP02TQ5N6  | 18       | 19     | 28     | 29     | 32     |
| LQP02TQ6N2  | 18       | 19     | 27     | 29     | 31     |
| LQP02TQ6N8  | 18       | 19     | 27     | 28     | 30     |
| LQP02TQ7N5  | 18       | 19     | 28     | 29     | 32     |
| LQP02TQ8N2  | 19       | 20     | 28     | 30     | 32     |
| LQP02TQ9N1  | 18       | 19     | 27     | 28     | 30     |
| LQP02TQ10N  | 18       | 19     | 27     | 28     | 29     |

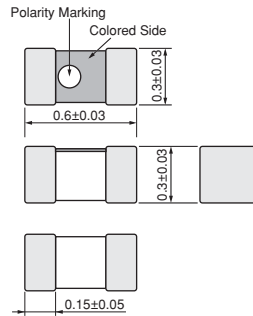
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# LQP03TG\_02

Series 0201/0603 (inch/mm)

Size Code 0201 (0603) in inch (in mm), Standard Type

## ■ Appearance/Dimensions



(in mm)

## ■ Packaging

| Code | Packaging           | Minimum Quantity |
|------|---------------------|------------------|
| D    | ø180mm Paper Taping | 15000            |
| J    | ø330mm Paper Taping | 50000            |
| B    | Packing in Bulk     | 500              |



Refer to pages 227 to 230 for mounting information.

## ■ Rated Value (□: packaging code)

| Part Number    | Inductance   | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |     |
|----------------|--------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|-----|
| LQP03TG0N6B02□ | 0.6nH ±0.1nH | 500MHz                    | 850mA         | 0.08Ω                 | 11       | 500MHz           | 18000MHz                        | Kit |
| LQP03TG0N6C02□ | 0.6nH ±0.2nH | 500MHz                    | 850mA         | 0.08Ω                 | 11       | 500MHz           | 18000MHz                        |     |
| LQP03TG0N7B02□ | 0.7nH ±0.1nH | 500MHz                    | 750mA         | 0.10Ω                 | 12       | 500MHz           | 18000MHz                        | Kit |
| LQP03TG0N7C02□ | 0.7nH ±0.2nH | 500MHz                    | 750mA         | 0.10Ω                 | 12       | 500MHz           | 18000MHz                        |     |
| LQP03TG0N8B02□ | 0.8nH ±0.1nH | 500MHz                    | 750mA         | 0.10Ω                 | 12       | 500MHz           | 18000MHz                        | Kit |
| LQP03TG0N8C02□ | 0.8nH ±0.2nH | 500MHz                    | 750mA         | 0.10Ω                 | 12       | 500MHz           | 18000MHz                        |     |
| LQP03TG0N9B02□ | 0.9nH ±0.1nH | 500MHz                    | 700mA         | 0.12Ω                 | 12       | 500MHz           | 18000MHz                        | Kit |
| LQP03TG0N9C02□ | 0.9nH ±0.2nH | 500MHz                    | 700mA         | 0.12Ω                 | 12       | 500MHz           | 18000MHz                        |     |
| LQP03TG1N0B02□ | 1.0nH ±0.1nH | 500MHz                    | 600mA         | 0.15Ω                 | 12       | 500MHz           | 17000MHz                        | Kit |
| LQP03TG1N0C02□ | 1.0nH ±0.2nH | 500MHz                    | 600mA         | 0.15Ω                 | 12       | 500MHz           | 17000MHz                        |     |
| LQP03TG1N1B02□ | 1.1nH ±0.1nH | 500MHz                    | 600mA         | 0.15Ω                 | 12       | 500MHz           | 17000MHz                        | Kit |
| LQP03TG1N1C02□ | 1.1nH ±0.2nH | 500MHz                    | 600mA         | 0.15Ω                 | 12       | 500MHz           | 17000MHz                        |     |
| LQP03TG1N2B02□ | 1.2nH ±0.1nH | 500MHz                    | 600mA         | 0.15Ω                 | 13       | 500MHz           | 15000MHz                        | Kit |
| LQP03TG1N2C02□ | 1.2nH ±0.2nH | 500MHz                    | 600mA         | 0.15Ω                 | 13       | 500MHz           | 15000MHz                        |     |
| LQP03TG1N3B02□ | 1.3nH ±0.1nH | 500MHz                    | 600mA         | 0.15Ω                 | 13       | 500MHz           | 15000MHz                        | Kit |
| LQP03TG1N3C02□ | 1.3nH ±0.2nH | 500MHz                    | 600mA         | 0.15Ω                 | 13       | 500MHz           | 15000MHz                        |     |
| LQP03TG1N4B02□ | 1.4nH ±0.1nH | 500MHz                    | 600mA         | 0.15Ω                 | 13       | 500MHz           | 14000MHz                        | Kit |
| LQP03TG1N4C02□ | 1.4nH ±0.2nH | 500MHz                    | 600mA         | 0.15Ω                 | 13       | 500MHz           | 14000MHz                        |     |
| LQP03TG1N5B02□ | 1.5nH ±0.1nH | 500MHz                    | 600mA         | 0.15Ω                 | 13       | 500MHz           | 13500MHz                        | Kit |
| LQP03TG1N5C02□ | 1.5nH ±0.2nH | 500MHz                    | 600mA         | 0.15Ω                 | 13       | 500MHz           | 13500MHz                        |     |
| LQP03TG1N6B02□ | 1.6nH ±0.1nH | 500MHz                    | 600mA         | 0.15Ω                 | 13       | 500MHz           | 13000MHz                        | Kit |
| LQP03TG1N6C02□ | 1.6nH ±0.2nH | 500MHz                    | 600mA         | 0.15Ω                 | 13       | 500MHz           | 13000MHz                        |     |
| LQP03TG1N7B02□ | 1.7nH ±0.1nH | 500MHz                    | 500mA         | 0.20Ω                 | 13       | 500MHz           | 12500MHz                        | Kit |
| LQP03TG1N7C02□ | 1.7nH ±0.2nH | 500MHz                    | 500mA         | 0.20Ω                 | 13       | 500MHz           | 12500MHz                        |     |
| LQP03TG1N8B02□ | 1.8nH ±0.1nH | 500MHz                    | 500mA         | 0.20Ω                 | 13       | 500MHz           | 12500MHz                        | Kit |
| LQP03TG1N8C02□ | 1.8nH ±0.2nH | 500MHz                    | 500mA         | 0.20Ω                 | 13       | 500MHz           | 12500MHz                        |     |
| LQP03TG1N9B02□ | 1.9nH ±0.1nH | 500MHz                    | 450mA         | 0.25Ω                 | 13       | 500MHz           | 12500MHz                        | Kit |
| LQP03TG1N9C02□ | 1.9nH ±0.2nH | 500MHz                    | 450mA         | 0.25Ω                 | 13       | 500MHz           | 12500MHz                        |     |
| LQP03TG2N0B02□ | 2.0nH ±0.1nH | 500MHz                    | 450mA         | 0.25Ω                 | 13       | 500MHz           | 12500MHz                        | Kit |
| LQP03TG2N0C02□ | 2.0nH ±0.2nH | 500MHz                    | 450mA         | 0.25Ω                 | 13       | 500MHz           | 12500MHz                        |     |
| LQP03TG2N1B02□ | 2.1nH ±0.1nH | 500MHz                    | 450mA         | 0.25Ω                 | 13       | 500MHz           | 12000MHz                        | Kit |
| LQP03TG2N1C02□ | 2.1nH ±0.2nH | 500MHz                    | 450mA         | 0.25Ω                 | 13       | 500MHz           | 12000MHz                        |     |

Operating Temperature Range (Self-temperature rise is not included): -55°C~+125°C  
For reflow soldering only.

Continued on the following page.

△Note • Please read rating and △CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.  
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O05E.pdf  
Nov.25,2013

| Part Number    | Inductance   | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |     |
|----------------|--------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|-----|
| LQP03TG2N2B02□ | 2.2nH ±0.1nH | 500MHz                    | 450mA         | 0.25Ω                 | 13       | 500MHz           | 12000MHz                        | Kit |
| LQP03TG2N2C02□ | 2.2nH ±0.2nH | 500MHz                    | 450mA         | 0.25Ω                 | 13       | 500MHz           | 12000MHz                        |     |
| LQP03TG2N3B02□ | 2.3nH ±0.1nH | 500MHz                    | 450mA         | 0.25Ω                 | 13       | 500MHz           | 11500MHz                        | Kit |
| LQP03TG2N3C02□ | 2.3nH ±0.2nH | 500MHz                    | 450mA         | 0.25Ω                 | 13       | 500MHz           | 11500MHz                        |     |
| LQP03TG2N4B02□ | 2.4nH ±0.1nH | 500MHz                    | 450mA         | 0.25Ω                 | 13       | 500MHz           | 11000MHz                        | Kit |
| LQP03TG2N4C02□ | 2.4nH ±0.2nH | 500MHz                    | 450mA         | 0.25Ω                 | 13       | 500MHz           | 11000MHz                        |     |
| LQP03TG2N5B02□ | 2.5nH ±0.1nH | 500MHz                    | 450mA         | 0.25Ω                 | 13       | 500MHz           | 11000MHz                        | Kit |
| LQP03TG2N5C02□ | 2.5nH ±0.2nH | 500MHz                    | 450mA         | 0.25Ω                 | 13       | 500MHz           | 11000MHz                        |     |
| LQP03TG2N6B02□ | 2.6nH ±0.1nH | 500MHz                    | 450mA         | 0.25Ω                 | 13       | 500MHz           | 11000MHz                        | Kit |
| LQP03TG2N6C02□ | 2.6nH ±0.2nH | 500MHz                    | 450mA         | 0.25Ω                 | 13       | 500MHz           | 11000MHz                        |     |
| LQP03TG2N7B02□ | 2.7nH ±0.1nH | 500MHz                    | 450mA         | 0.25Ω                 | 13       | 500MHz           | 11000MHz                        | Kit |
| LQP03TG2N7C02□ | 2.7nH ±0.2nH | 500MHz                    | 450mA         | 0.25Ω                 | 13       | 500MHz           | 11000MHz                        |     |
| LQP03TG2N8B02□ | 2.8nH ±0.1nH | 500MHz                    | 450mA         | 0.25Ω                 | 13       | 500MHz           | 9500MHz                         | Kit |
| LQP03TG2N8C02□ | 2.8nH ±0.2nH | 500MHz                    | 450mA         | 0.25Ω                 | 13       | 500MHz           | 9500MHz                         |     |
| LQP03TG2N9B02□ | 2.9nH ±0.1nH | 500MHz                    | 450mA         | 0.25Ω                 | 13       | 500MHz           | 9500MHz                         | Kit |
| LQP03TG2N9C02□ | 2.9nH ±0.2nH | 500MHz                    | 450mA         | 0.25Ω                 | 13       | 500MHz           | 9500MHz                         |     |
| LQP03TG3N0B02□ | 3.0nH ±0.1nH | 500MHz                    | 450mA         | 0.25Ω                 | 13       | 500MHz           | 9500MHz                         | Kit |
| LQP03TG3N0C02□ | 3.0nH ±0.2nH | 500MHz                    | 450mA         | 0.25Ω                 | 13       | 500MHz           | 9500MHz                         |     |
| LQP03TG3N1B02□ | 3.1nH ±0.1nH | 500MHz                    | 400mA         | 0.32Ω                 | 13       | 500MHz           | 9500MHz                         | Kit |
| LQP03TG3N1C02□ | 3.1nH ±0.2nH | 500MHz                    | 400mA         | 0.32Ω                 | 13       | 500MHz           | 9500MHz                         |     |
| LQP03TG3N2B02□ | 3.2nH ±0.1nH | 500MHz                    | 400mA         | 0.32Ω                 | 13       | 500MHz           | 9500MHz                         | Kit |
| LQP03TG3N2C02□ | 3.2nH ±0.2nH | 500MHz                    | 400mA         | 0.32Ω                 | 13       | 500MHz           | 9500MHz                         |     |
| LQP03TG3N3B02□ | 3.3nH ±0.1nH | 500MHz                    | 400mA         | 0.32Ω                 | 13       | 500MHz           | 9500MHz                         | Kit |
| LQP03TG3N3C02□ | 3.3nH ±0.2nH | 500MHz                    | 400mA         | 0.32Ω                 | 13       | 500MHz           | 9500MHz                         |     |
| LQP03TG3N4B02□ | 3.4nH ±0.1nH | 500MHz                    | 350mA         | 0.35Ω                 | 13       | 500MHz           | 8000MHz                         | Kit |
| LQP03TG3N4C02□ | 3.4nH ±0.2nH | 500MHz                    | 350mA         | 0.35Ω                 | 13       | 500MHz           | 8000MHz                         |     |
| LQP03TG3N5B02□ | 3.5nH ±0.1nH | 500MHz                    | 350mA         | 0.35Ω                 | 13       | 500MHz           | 8000MHz                         | Kit |
| LQP03TG3N5C02□ | 3.5nH ±0.2nH | 500MHz                    | 350mA         | 0.35Ω                 | 13       | 500MHz           | 8000MHz                         |     |
| LQP03TG3N6B02□ | 3.6nH ±0.1nH | 500MHz                    | 350mA         | 0.35Ω                 | 13       | 500MHz           | 8000MHz                         | Kit |
| LQP03TG3N6C02□ | 3.6nH ±0.2nH | 500MHz                    | 350mA         | 0.35Ω                 | 13       | 500MHz           | 8000MHz                         |     |
| LQP03TG3N7B02□ | 3.7nH ±0.1nH | 500MHz                    | 350mA         | 0.35Ω                 | 13       | 500MHz           | 7000MHz                         | Kit |
| LQP03TG3N7C02□ | 3.7nH ±0.2nH | 500MHz                    | 350mA         | 0.35Ω                 | 13       | 500MHz           | 7000MHz                         |     |
| LQP03TG3N8B02□ | 3.8nH ±0.1nH | 500MHz                    | 350mA         | 0.35Ω                 | 13       | 500MHz           | 7000MHz                         | Kit |
| LQP03TG3N8C02□ | 3.8nH ±0.2nH | 500MHz                    | 350mA         | 0.35Ω                 | 13       | 500MHz           | 7000MHz                         |     |
| LQP03TG3N9B02□ | 3.9nH ±0.1nH | 500MHz                    | 350mA         | 0.35Ω                 | 13       | 500MHz           | 6500MHz                         | Kit |
| LQP03TG3N9C02□ | 3.9nH ±0.2nH | 500MHz                    | 350mA         | 0.35Ω                 | 13       | 500MHz           | 6500MHz                         |     |
| LQP03TG4N3H02□ | 4.3nH ±3%    | 500MHz                    | 300mA         | 0.58Ω                 | 13       | 500MHz           | 6500MHz                         | Kit |
| LQP03TG4N3J02□ | 4.3nH ±5%    | 500MHz                    | 300mA         | 0.58Ω                 | 13       | 500MHz           | 6500MHz                         |     |
| LQP03TG4N7H02□ | 4.7nH ±3%    | 500MHz                    | 250mA         | 0.72Ω                 | 12       | 500MHz           | 6500MHz                         | Kit |
| LQP03TG4N7J02□ | 4.7nH ±5%    | 500MHz                    | 250mA         | 0.72Ω                 | 12       | 500MHz           | 6500MHz                         |     |
| LQP03TG5N1H02□ | 5.1nH ±3%    | 500MHz                    | 250mA         | 0.72Ω                 | 12       | 500MHz           | 6500MHz                         | Kit |
| LQP03TG5N1J02□ | 5.1nH ±5%    | 500MHz                    | 250mA         | 0.72Ω                 | 12       | 500MHz           | 6500MHz                         |     |
| LQP03TG5N6H02□ | 5.6nH ±3%    | 500MHz                    | 250mA         | 0.88Ω                 | 12       | 500MHz           | 6000MHz                         | Kit |
| LQP03TG5N6J02□ | 5.6nH ±5%    | 500MHz                    | 250mA         | 0.88Ω                 | 12       | 500MHz           | 6000MHz                         |     |
| LQP03TG6N2H02□ | 6.2nH ±3%    | 500MHz                    | 200mA         | 1.15Ω                 | 12       | 500MHz           | 6000MHz                         | Kit |
| LQP03TG6N2J02□ | 6.2nH ±5%    | 500MHz                    | 200mA         | 1.15Ω                 | 12       | 500MHz           | 6000MHz                         |     |
| LQP03TG6N8H02□ | 6.8nH ±3%    | 500MHz                    | 200mA         | 1.15Ω                 | 12       | 500MHz           | 5400MHz                         | Kit |

Operating Temperature Range (Self-temperature rise is not included): -55°C~+125°C  
For reflow soldering only.

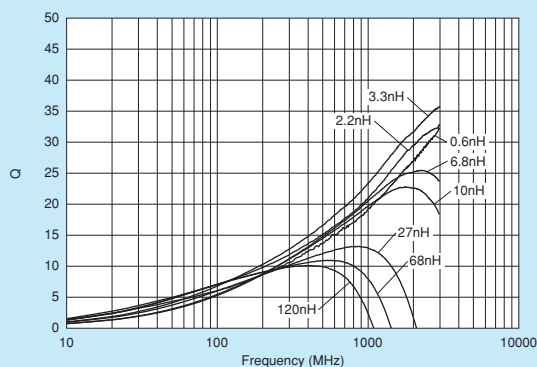
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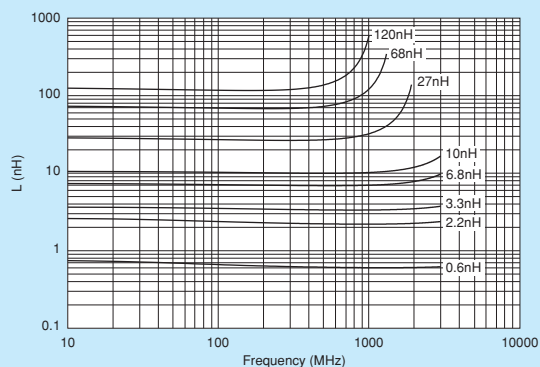
| Part Number    | Inductance | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |     |
|----------------|------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|-----|
| LQP03TG6N8J02□ | 6.8nH ±5%  | 500MHz                    | 200mA         | 1.15Ω                 | 12       | 500MHz           | 5400MHz                         |     |
| LQP03TG7N5H02□ | 7.5nH ±3%  | 500MHz                    | 200mA         | 1.22Ω                 | 12       | 500MHz           | 4800MHz                         | Kit |
| LQP03TG7N5J02□ | 7.5nH ±5%  | 500MHz                    | 200mA         | 1.22Ω                 | 12       | 500MHz           | 4800MHz                         |     |
| LQP03TG8N2H02□ | 8.2nH ±3%  | 500MHz                    | 200mA         | 1.40Ω                 | 12       | 500MHz           | 4800MHz                         | Kit |
| LQP03TG8N2J02□ | 8.2nH ±5%  | 500MHz                    | 200mA         | 1.40Ω                 | 12       | 500MHz           | 4800MHz                         |     |
| LQP03TG9N1H02□ | 9.1nH ±3%  | 500MHz                    | 200mA         | 1.40Ω                 | 11       | 500MHz           | 4500MHz                         | Kit |
| LQP03TG9N1J02□ | 9.1nH ±5%  | 500MHz                    | 200mA         | 1.40Ω                 | 11       | 500MHz           | 4500MHz                         |     |
| LQP03TG10NH02□ | 10nH ±3%   | 500MHz                    | 190mA         | 1.52Ω                 | 11       | 500MHz           | 4500MHz                         | Kit |
| LQP03TG10NJ02□ | 10nH ±5%   | 500MHz                    | 190mA         | 1.52Ω                 | 11       | 500MHz           | 4500MHz                         |     |
| LQP03TG12NH02□ | 12nH ±3%   | 500MHz                    | 180mA         | 1.78Ω                 | 11       | 500MHz           | 3700MHz                         | Kit |
| LQP03TG12NJ02□ | 12nH ±5%   | 500MHz                    | 180mA         | 1.78Ω                 | 11       | 500MHz           | 3700MHz                         |     |
| LQP03TG15NH02□ | 15nH ±3%   | 500MHz                    | 170mA         | 1.90Ω                 | 11       | 500MHz           | 3100MHz                         | Kit |
| LQP03TG15NJ02□ | 15nH ±5%   | 500MHz                    | 170mA         | 1.90Ω                 | 11       | 500MHz           | 3100MHz                         |     |
| LQP03TG18NH02□ | 18nH ±3%   | 500MHz                    | 160mA         | 2.28Ω                 | 11       | 500MHz           | 2800MHz                         | Kit |
| LQP03TG18NJ02□ | 18nH ±5%   | 500MHz                    | 160mA         | 2.28Ω                 | 11       | 500MHz           | 2800MHz                         |     |
| LQP03TG22NH02□ | 22nH ±3%   | 500MHz                    | 140mA         | 2.85Ω                 | 9        | 500MHz           | 2500MHz                         | Kit |
| LQP03TG22NJ02□ | 22nH ±5%   | 500MHz                    | 140mA         | 2.85Ω                 | 9        | 500MHz           | 2500MHz                         |     |
| LQP03TG27NH02□ | 27nH ±3%   | 500MHz                    | 120mA         | 3.65Ω                 | 7        | 500MHz           | 1700MHz                         | New |
| LQP03TG27NJ02□ | 27nH ±5%   | 500MHz                    | 120mA         | 3.65Ω                 | 7        | 500MHz           | 1700MHz                         | New |
| LQP03TG33NJ02□ | 33nH ±5%   | 300MHz                    | 110mA         | 4.25Ω                 | 7        | 300MHz           | 1600MHz                         | New |
| LQP03TG39NJ02□ | 39nH ±5%   | 300MHz                    | 110mA         | 4.6Ω                  | 7        | 300MHz           | 1500MHz                         | New |
| LQP03TG47NJ02□ | 47nH ±5%   | 300MHz                    | 100mA         | 5.2Ω                  | 7        | 300MHz           | 1300MHz                         | New |
| LQP03TG56NJ02□ | 56nH ±5%   | 300MHz                    | 100mA         | 5.6Ω                  | 7        | 300MHz           | 1200MHz                         | New |
| LQP03TG68NJ02□ | 68nH ±5%   | 300MHz                    | 90mA          | 6.25Ω                 | 6        | 300MHz           | 1100MHz                         | New |
| LQP03TG82NJ02□ | 82nH ±5%   | 300MHz                    | 90mA          | 7.15Ω                 | 6        | 300MHz           | 1000MHz                         | New |
| LQP03TGR10J02□ | 100nH ±5%  | 300MHz                    | 80mA          | 8.05Ω                 | 6        | 300MHz           | 900MHz                          | New |
| LQP03TGR12J02□ | 120nH ±5%  | 300MHz                    | 80mA          | 8.75Ω                 | 6        | 300MHz           | 800MHz                          | New |

Operating Temperature Range (Self-temperature rise is not included): -55°C~+125°C  
For reflow soldering only.

■ Q-Frequency Characteristics (Typ.)



■ Inductance-Frequency Characteristics (Typ.)



Continued on the following page.

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## ■ Reference Data

4991A+16197A

| Part Number | Q (Typ.) |        |        |        |        |
|-------------|----------|--------|--------|--------|--------|
|             | 800MHz   | 900MHz | 1.8GHz | 2.0GHz | 2.4GHz |
| LQP03TG0N6  | 17       | 18     | 26     | 27     | 29     |
| LQP03TG0N7  | 18       | 20     | 29     | 30     | 33     |
| LQP03TG0N8  | 18       | 20     | 29     | 30     | 33     |
| LQP03TG0N9  | 19       | 20     | 30     | 31     | 34     |
| LQP03TG1N0  | 18       | 19     | 28     | 29     | 31     |
| LQP03TG1N1  | 18       | 20     | 28     | 29     | 32     |
| LQP03TG1N2  | 19       | 20     | 29     | 30     | 33     |
| LQP03TG1N3  | 18       | 19     | 28     | 29     | 32     |
| LQP03TG1N4  | 20       | 21     | 31     | 32     | 34     |
| LQP03TG1N5  | 21       | 22     | 32     | 33     | 35     |
| LQP03TG1N6  | 18       | 20     | 29     | 30     | 32     |
| LQP03TG1N7  | 19       | 20     | 29     | 30     | 33     |
| LQP03TG1N8  | 20       | 21     | 30     | 31     | 33     |
| LQP03TG1N9  | 19       | 20     | 29     | 31     | 33     |
| LQP03TG2N0  | 20       | 21     | 30     | 31     | 33     |
| LQP03TG2N1  | 19       | 20     | 28     | 29     | 31     |
| LQP03TG2N2  | 19       | 20     | 28     | 29     | 31     |
| LQP03TG2N3  | 19       | 20     | 28     | 29     | 32     |
| LQP03TG2N4  | 20       | 21     | 30     | 31     | 34     |
| LQP03TG2N5  | 19       | 20     | 29     | 30     | 32     |
| LQP03TG2N6  | 19       | 20     | 28     | 30     | 32     |
| LQP03TG2N7  | 19       | 20     | 29     | 30     | 31     |
| LQP03TG2N8  | 20       | 21     | 30     | 31     | 33     |
| LQP03TG2N9  | 20       | 21     | 30     | 31     | 34     |
| LQP03TG3N0  | 21       | 22     | 30     | 31     | 33     |
| LQP03TG3N1  | 20       | 21     | 30     | 31     | 34     |
| LQP03TG3N2  | 20       | 21     | 30     | 31     | 33     |
| LQP03TG3N3  | 21       | 22     | 31     | 31     | 34     |
| LQP03TG3N4  | 20       | 21     | 29     | 30     | 32     |
| LQP03TG3N5  | 19       | 20     | 28     | 29     | 31     |
| LQP03TG3N6  | 20       | 21     | 29     | 29     | 31     |
| LQP03TG3N7  | 18       | 20     | 28     | 29     | 30     |
| LQP03TG3N8  | 18       | 19     | 27     | 28     | 30     |
| LQP03TG3N9  | 20       | 21     | 29     | 30     | 31     |
| LQP03TG4N3  | 19       | 21     | 28     | 28     | 30     |
| LQP03TG4N7  | 19       | 20     | 27     | 28     | 29     |
| LQP03TG5N1  | 19       | 20     | 27     | 27     | 29     |
| LQP03TG5N6  | 18       | 19     | 25     | 26     | 27     |
| LQP03TG6N2  | 18       | 19     | 25     | 26     | 26     |
| LQP03TG6N8  | 18       | 19     | 25     | 25     | 25     |
| LQP03TG7N5  | 18       | 19     | 24     | 24     | 24     |
| LQP03TG8N2  | 18       | 19     | 24     | 24     | 24     |
| LQP03TG9N1  | 18       | 19     | 23     | 22     | 22     |
| LQP03TG10N  | 18       | 19     | 23     | 23     | 22     |
| LQP03TG12N  | 17       | 18     | 20     | 20     | 17     |
| LQP03TG15N  | 17       | 18     | 18     | 17     | 13     |
| LQP03TG18N  | 15       | 16     | 14     | 13     | 8      |
| LQP03TG22N  | 13       | 14     | 11     | 9      | 4      |

Continued on the following page. 

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 • This catalog has only typical specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

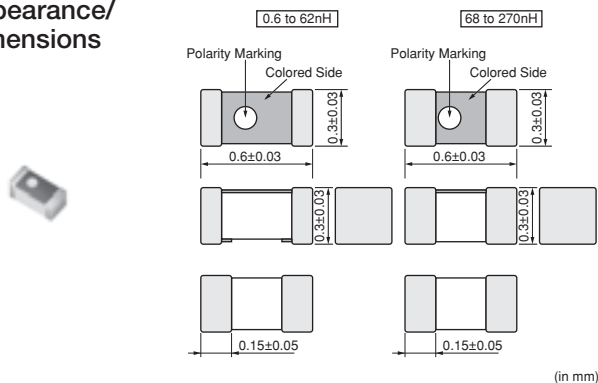
| Part Number | Q (Typ.) |        |        |        |        |
|-------------|----------|--------|--------|--------|--------|
|             | 800MHz   | 900MHz | 1.8GHz | 2.0GHz | 2.4GHz |
| LQP03TG27N  | 13       | 13     | 5      | -      | -      |
| LQP03TG33N  | 13       | 12     | -      | -      | -      |
| LQP03TG39N  | 13       | 12     | -      | -      | -      |
| LQP03TG47N  | 13       | 12     | -      | -      | -      |
| LQP03TG56N  | 11       | 10     | -      | -      | -      |
| LQP03TG68N  | 10       | 9      | -      | -      | -      |
| LQP03TG82N  | 9        | 8      | -      | -      | -      |
| LQP03TGR10  | 7        | 6      | -      | -      | -      |
| LQP03TGR12  | 7        | 5      | -      | -      | -      |

# LQP03TN\_02

Series 0201/0603 (inch/mm)

Size Code 0201 (0603) in inch (in mm), High Q, Wide Variation

## Appearance/Dimensions



## Packaging

| Code | Packaging           | Minimum Quantity |
|------|---------------------|------------------|
| D    | ø180mm Paper Taping | 15000            |
| J    | ø330mm Paper Taping | 50000            |
| B    | Packing in Bulk     | 500              |



Refer to pages 227 to 230 for mounting information.

## Rated Value (□: packaging code)

| Part Number    | Inductance   | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |     |
|----------------|--------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|-----|
| LQP03TN0N6B02□ | 0.6nH ±0.1nH | 500MHz                    | 850mA         | 0.07Ω                 | 14       | 500MHz           | 20000MHz                        | Kit |
| LQP03TN0N6C02□ | 0.6nH ±0.2nH | 500MHz                    | 850mA         | 0.07Ω                 | 14       | 500MHz           | 20000MHz                        |     |
| LQP03TN0N7B02□ | 0.7nH ±0.1nH | 500MHz                    | 800mA         | 0.08Ω                 | 14       | 500MHz           | 20000MHz                        | Kit |
| LQP03TN0N7C02□ | 0.7nH ±0.2nH | 500MHz                    | 800mA         | 0.08Ω                 | 14       | 500MHz           | 20000MHz                        |     |
| LQP03TN0N8B02□ | 0.8nH ±0.1nH | 500MHz                    | 800mA         | 0.08Ω                 | 14       | 500MHz           | 18000MHz                        | Kit |
| LQP03TN0N8C02□ | 0.8nH ±0.2nH | 500MHz                    | 800mA         | 0.08Ω                 | 14       | 500MHz           | 18000MHz                        |     |
| LQP03TN0N9B02□ | 0.9nH ±0.1nH | 500MHz                    | 750mA         | 0.10Ω                 | 14       | 500MHz           | 18000MHz                        | Kit |
| LQP03TN0N9C02□ | 0.9nH ±0.2nH | 500MHz                    | 750mA         | 0.10Ω                 | 14       | 500MHz           | 18000MHz                        |     |
| LQP03TN1N0B02□ | 1.0nH ±0.1nH | 500MHz                    | 750mA         | 0.10Ω                 | 14       | 500MHz           | 17000MHz                        | Kit |
| LQP03TN1N0C02□ | 1.0nH ±0.2nH | 500MHz                    | 750mA         | 0.10Ω                 | 14       | 500MHz           | 17000MHz                        |     |
| LQP03TN1N1B02□ | 1.1nH ±0.1nH | 500MHz                    | 750mA         | 0.10Ω                 | 14       | 500MHz           | 17000MHz                        | Kit |
| LQP03TN1N1C02□ | 1.1nH ±0.2nH | 500MHz                    | 750mA         | 0.10Ω                 | 14       | 500MHz           | 17000MHz                        |     |
| LQP03TN1N2B02□ | 1.2nH ±0.1nH | 500MHz                    | 750mA         | 0.10Ω                 | 14       | 500MHz           | 17000MHz                        | Kit |
| LQP03TN1N2C02□ | 1.2nH ±0.2nH | 500MHz                    | 750mA         | 0.10Ω                 | 14       | 500MHz           | 17000MHz                        |     |
| LQP03TN1N3B02□ | 1.3nH ±0.1nH | 500MHz                    | 600mA         | 0.15Ω                 | 14       | 500MHz           | 17000MHz                        | Kit |
| LQP03TN1N3C02□ | 1.3nH ±0.2nH | 500MHz                    | 600mA         | 0.15Ω                 | 14       | 500MHz           | 17000MHz                        |     |
| LQP03TN1N4B02□ | 1.4nH ±0.1nH | 500MHz                    | 600mA         | 0.15Ω                 | 14       | 500MHz           | 16000MHz                        | Kit |
| LQP03TN1N4C02□ | 1.4nH ±0.2nH | 500MHz                    | 600mA         | 0.15Ω                 | 14       | 500MHz           | 16000MHz                        |     |
| LQP03TN1N5B02□ | 1.5nH ±0.1nH | 500MHz                    | 600mA         | 0.15Ω                 | 14       | 500MHz           | 15000MHz                        | Kit |
| LQP03TN1N5C02□ | 1.5nH ±0.2nH | 500MHz                    | 600mA         | 0.15Ω                 | 14       | 500MHz           | 15000MHz                        |     |
| LQP03TN1N6B02□ | 1.6nH ±0.1nH | 500MHz                    | 600mA         | 0.15Ω                 | 14       | 500MHz           | 15000MHz                        | Kit |
| LQP03TN1N6C02□ | 1.6nH ±0.2nH | 500MHz                    | 600mA         | 0.15Ω                 | 14       | 500MHz           | 15000MHz                        |     |
| LQP03TN1N7B02□ | 1.7nH ±0.1nH | 500MHz                    | 600mA         | 0.15Ω                 | 14       | 500MHz           | 15000MHz                        | Kit |
| LQP03TN1N7C02□ | 1.7nH ±0.2nH | 500MHz                    | 600mA         | 0.15Ω                 | 14       | 500MHz           | 15000MHz                        |     |
| LQP03TN1N8B02□ | 1.8nH ±0.1nH | 500MHz                    | 600mA         | 0.15Ω                 | 14       | 500MHz           | 15000MHz                        | Kit |
| LQP03TN1N8C02□ | 1.8nH ±0.2nH | 500MHz                    | 600mA         | 0.15Ω                 | 14       | 500MHz           | 15000MHz                        |     |
| LQP03TN1N9B02□ | 1.9nH ±0.1nH | 500MHz                    | 600mA         | 0.15Ω                 | 14       | 500MHz           | 12500MHz                        | Kit |
| LQP03TN1N9C02□ | 1.9nH ±0.2nH | 500MHz                    | 600mA         | 0.15Ω                 | 14       | 500MHz           | 12500MHz                        |     |
| LQP03TN2N0B02□ | 2.0nH ±0.1nH | 500MHz                    | 600mA         | 0.15Ω                 | 14       | 500MHz           | 12500MHz                        | Kit |
| LQP03TN2N0C02□ | 2.0nH ±0.2nH | 500MHz                    | 600mA         | 0.15Ω                 | 14       | 500MHz           | 12500MHz                        |     |
| LQP03TN2N1B02□ | 2.1nH ±0.1nH | 500MHz                    | 600mA         | 0.15Ω                 | 14       | 500MHz           | 11000MHz                        | Kit |
| LQP03TN2N1C02□ | 2.1nH ±0.2nH | 500MHz                    | 600mA         | 0.15Ω                 | 14       | 500MHz           | 11000MHz                        |     |
| LQP03TN2N2B02□ | 2.2nH ±0.1nH | 500MHz                    | 600mA         | 0.15Ω                 | 14       | 500MHz           | 11000MHz                        | Kit |

Operating Temperature Range (Self-temperature rise is not included): -55°C~+125°C  
For reflow soldering only.

Continued on the following page.

⚠Note • Please read rating and ⚠CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.  
• This catalog has only typical specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

| Part Number    | Inductance   | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |     |
|----------------|--------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|-----|
| LQP03TN2N2C02□ | 2.2nH ±0.2nH | 500MHz                    | 600mA         | 0.15Ω                 | 14       | 500MHz           | 11000MHz                        |     |
| LQP03TN2N3B02□ | 2.3nH ±0.1nH | 500MHz                    | 500mA         | 0.20Ω                 | 14       | 500MHz           | 10000MHz                        | Kit |
| LQP03TN2N3C02□ | 2.3nH ±0.2nH | 500MHz                    | 500mA         | 0.20Ω                 | 14       | 500MHz           | 10000MHz                        |     |
| LQP03TN2N4B02□ | 2.4nH ±0.1nH | 500MHz                    | 500mA         | 0.20Ω                 | 14       | 500MHz           | 10000MHz                        | Kit |
| LQP03TN2N4C02□ | 2.4nH ±0.2nH | 500MHz                    | 500mA         | 0.20Ω                 | 14       | 500MHz           | 10000MHz                        |     |
| LQP03TN2N5B02□ | 2.5nH ±0.1nH | 500MHz                    | 500mA         | 0.20Ω                 | 14       | 500MHz           | 10000MHz                        | Kit |
| LQP03TN2N5C02□ | 2.5nH ±0.2nH | 500MHz                    | 500mA         | 0.20Ω                 | 14       | 500MHz           | 10000MHz                        |     |
| LQP03TN2N6B02□ | 2.6nH ±0.1nH | 500MHz                    | 500mA         | 0.20Ω                 | 14       | 500MHz           | 10000MHz                        | Kit |
| LQP03TN2N6C02□ | 2.6nH ±0.2nH | 500MHz                    | 500mA         | 0.20Ω                 | 14       | 500MHz           | 10000MHz                        |     |
| LQP03TN2N7B02□ | 2.7nH ±0.1nH | 500MHz                    | 500mA         | 0.20Ω                 | 14       | 500MHz           | 10000MHz                        | Kit |
| LQP03TN2N7C02□ | 2.7nH ±0.2nH | 500MHz                    | 500mA         | 0.20Ω                 | 14       | 500MHz           | 10000MHz                        |     |
| LQP03TN2N8B02□ | 2.8nH ±0.1nH | 500MHz                    | 500mA         | 0.20Ω                 | 14       | 500MHz           | 9500MHz                         | Kit |
| LQP03TN2N8C02□ | 2.8nH ±0.2nH | 500MHz                    | 500mA         | 0.20Ω                 | 14       | 500MHz           | 9500MHz                         |     |
| LQP03TN2N9B02□ | 2.9nH ±0.1nH | 500MHz                    | 500mA         | 0.20Ω                 | 14       | 500MHz           | 9500MHz                         | Kit |
| LQP03TN2N9C02□ | 2.9nH ±0.2nH | 500MHz                    | 500mA         | 0.20Ω                 | 14       | 500MHz           | 9500MHz                         |     |
| LQP03TN3N0B02□ | 3.0nH ±0.1nH | 500MHz                    | 450mA         | 0.25Ω                 | 14       | 500MHz           | 9500MHz                         | Kit |
| LQP03TN3N0C02□ | 3.0nH ±0.2nH | 500MHz                    | 450mA         | 0.25Ω                 | 14       | 500MHz           | 9500MHz                         |     |
| LQP03TN3N1B02□ | 3.1nH ±0.1nH | 500MHz                    | 450mA         | 0.25Ω                 | 14       | 500MHz           | 8000MHz                         | Kit |
| LQP03TN3N1C02□ | 3.1nH ±0.2nH | 500MHz                    | 450mA         | 0.25Ω                 | 14       | 500MHz           | 8000MHz                         |     |
| LQP03TN3N2B02□ | 3.2nH ±0.1nH | 500MHz                    | 450mA         | 0.25Ω                 | 14       | 500MHz           | 8000MHz                         | Kit |
| LQP03TN3N2C02□ | 3.2nH ±0.2nH | 500MHz                    | 450mA         | 0.25Ω                 | 14       | 500MHz           | 8000MHz                         |     |
| LQP03TN3N3B02□ | 3.3nH ±0.1nH | 500MHz                    | 450mA         | 0.25Ω                 | 14       | 500MHz           | 8000MHz                         | Kit |
| LQP03TN3N3C02□ | 3.3nH ±0.2nH | 500MHz                    | 450mA         | 0.25Ω                 | 14       | 500MHz           | 8000MHz                         |     |
| LQP03TN3N4B02□ | 3.4nH ±0.1nH | 500MHz                    | 450mA         | 0.25Ω                 | 14       | 500MHz           | 7000MHz                         | Kit |
| LQP03TN3N4C02□ | 3.4nH ±0.2nH | 500MHz                    | 450mA         | 0.25Ω                 | 14       | 500MHz           | 7000MHz                         |     |
| LQP03TN3N5B02□ | 3.5nH ±0.1nH | 500MHz                    | 450mA         | 0.25Ω                 | 14       | 500MHz           | 7000MHz                         | Kit |
| LQP03TN3N5C02□ | 3.5nH ±0.2nH | 500MHz                    | 450mA         | 0.25Ω                 | 14       | 500MHz           | 7000MHz                         |     |
| LQP03TN3N6B02□ | 3.6nH ±0.1nH | 500MHz                    | 400mA         | 0.30Ω                 | 14       | 500MHz           | 6000MHz                         | Kit |
| LQP03TN3N6C02□ | 3.6nH ±0.2nH | 500MHz                    | 400mA         | 0.30Ω                 | 14       | 500MHz           | 6000MHz                         |     |
| LQP03TN3N7B02□ | 3.7nH ±0.1nH | 500MHz                    | 400mA         | 0.30Ω                 | 14       | 500MHz           | 6000MHz                         | Kit |
| LQP03TN3N7C02□ | 3.7nH ±0.2nH | 500MHz                    | 400mA         | 0.30Ω                 | 14       | 500MHz           | 6000MHz                         |     |
| LQP03TN3N8B02□ | 3.8nH ±0.1nH | 500MHz                    | 400mA         | 0.30Ω                 | 14       | 500MHz           | 6000MHz                         | Kit |
| LQP03TN3N8C02□ | 3.8nH ±0.2nH | 500MHz                    | 400mA         | 0.30Ω                 | 14       | 500MHz           | 6000MHz                         |     |
| LQP03TN3N9B02□ | 3.9nH ±0.1nH | 500MHz                    | 400mA         | 0.30Ω                 | 14       | 500MHz           | 5700MHz                         | Kit |
| LQP03TN3N9C02□ | 3.9nH ±0.2nH | 500MHz                    | 400mA         | 0.30Ω                 | 14       | 500MHz           | 5700MHz                         |     |
| LQP03TN4N0B02□ | 4.0nH ±0.1nH | 500MHz                    | 350mA         | 0.40Ω                 | 14       | 500MHz           | 5300MHz                         | Kit |
| LQP03TN4N0C02□ | 4.0nH ±0.2nH | 500MHz                    | 350mA         | 0.40Ω                 | 14       | 500MHz           | 5300MHz                         |     |
| LQP03TN4N1B02□ | 4.1nH ±0.1nH | 500MHz                    | 350mA         | 0.40Ω                 | 14       | 500MHz           | 5300MHz                         | Kit |
| LQP03TN4N1C02□ | 4.1nH ±0.2nH | 500MHz                    | 350mA         | 0.40Ω                 | 14       | 500MHz           | 5300MHz                         |     |
| LQP03TN4N2B02□ | 4.2nH ±0.1nH | 500MHz                    | 350mA         | 0.40Ω                 | 14       | 500MHz           | 5300MHz                         | Kit |
| LQP03TN4N2C02□ | 4.2nH ±0.2nH | 500MHz                    | 350mA         | 0.40Ω                 | 14       | 500MHz           | 5300MHz                         |     |
| LQP03TN4N3H02□ | 4.3nH ±3%    | 500MHz                    | 350mA         | 0.40Ω                 | 14       | 500MHz           | 5300MHz                         | Kit |
| LQP03TN4N3J02□ | 4.3nH ±5%    | 500MHz                    | 350mA         | 0.40Ω                 | 14       | 500MHz           | 5300MHz                         |     |
| LQP03TN4N7H02□ | 4.7nH ±3%    | 500MHz                    | 350mA         | 0.40Ω                 | 14       | 500MHz           | 4400MHz                         | Kit |
| LQP03TN4N7J02□ | 4.7nH ±5%    | 500MHz                    | 350mA         | 0.40Ω                 | 14       | 500MHz           | 4400MHz                         |     |
| LQP03TN5N1H02□ | 5.1nH ±3%    | 500MHz                    | 350mA         | 0.40Ω                 | 14       | 500MHz           | 4200MHz                         | Kit |
| LQP03TN5N1J02□ | 5.1nH ±5%    | 500MHz                    | 350mA         | 0.40Ω                 | 14       | 500MHz           | 4200MHz                         |     |
| LQP03TN5N6H02□ | 5.6nH ±3%    | 500MHz                    | 350mA         | 0.40Ω                 | 14       | 500MHz           | 4000MHz                         | Kit |

Operating Temperature Range (Self-temperature rise is not included): -55°C~+125°C  
For reflow soldering only.

Continued on the following page. 

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• This catalog has only typical specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

| Part Number    | Inductance | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |         |
|----------------|------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|---------|
| LQP03TN5N6J02□ | 5.6nH ±5%  | 500MHz                    | 350mA         | 0.40Ω                 | 14       | 500MHz           | 4000MHz                         |         |
| LQP03TN6N2H02□ | 6.2nH ±3%  | 500MHz                    | 300mA         | 0.60Ω                 | 14       | 500MHz           | 4000MHz                         | Kit     |
| LQP03TN6N2J02□ | 6.2nH ±5%  | 500MHz                    | 300mA         | 0.60Ω                 | 14       | 500MHz           | 4000MHz                         |         |
| LQP03TN6N8H02□ | 6.8nH ±3%  | 500MHz                    | 300mA         | 0.60Ω                 | 14       | 500MHz           | 3900MHz                         | Kit     |
| LQP03TN6N8J02□ | 6.8nH ±5%  | 500MHz                    | 300mA         | 0.60Ω                 | 14       | 500MHz           | 3900MHz                         |         |
| LQP03TN7N5H02□ | 7.5nH ±3%  | 500MHz                    | 300mA         | 0.60Ω                 | 14       | 500MHz           | 3700MHz                         | Kit     |
| LQP03TN7N5J02□ | 7.5nH ±5%  | 500MHz                    | 300mA         | 0.60Ω                 | 14       | 500MHz           | 3700MHz                         |         |
| LQP03TN8N2H02□ | 8.2nH ±3%  | 500MHz                    | 250mA         | 0.70Ω                 | 14       | 500MHz           | 3600MHz                         | Kit     |
| LQP03TN8N2J02□ | 8.2nH ±5%  | 500MHz                    | 250mA         | 0.70Ω                 | 14       | 500MHz           | 3600MHz                         |         |
| LQP03TN9N1H02□ | 9.1nH ±3%  | 500MHz                    | 250mA         | 0.70Ω                 | 14       | 500MHz           | 3300MHz                         | Kit     |
| LQP03TN9N1J02□ | 9.1nH ±5%  | 500MHz                    | 250mA         | 0.70Ω                 | 14       | 500MHz           | 3300MHz                         |         |
| LQP03TN10NH02□ | 10nH ±3%   | 500MHz                    | 250mA         | 0.70Ω                 | 14       | 500MHz           | 3200MHz                         | Kit     |
| LQP03TN10NJ02□ | 10nH ±5%   | 500MHz                    | 250mA         | 0.70Ω                 | 14       | 500MHz           | 3200MHz                         |         |
| LQP03TN11NH02□ | 11nH ±3%   | 500MHz                    | 250mA         | 0.80Ω                 | 14       | 500MHz           | 2900MHz                         | Kit     |
| LQP03TN11NJ02□ | 11nH ±5%   | 500MHz                    | 250mA         | 0.80Ω                 | 14       | 500MHz           | 2900MHz                         |         |
| LQP03TN12NH02□ | 12nH ±3%   | 500MHz                    | 250mA         | 0.70Ω                 | 12       | 500MHz           | 2900MHz                         | Kit     |
| LQP03TN12NJ02□ | 12nH ±5%   | 500MHz                    | 250mA         | 0.70Ω                 | 12       | 500MHz           | 2900MHz                         |         |
| LQP03TN13NH02□ | 13nH ±3%   | 500MHz                    | 250mA         | 0.80Ω                 | 12       | 500MHz           | 2600MHz                         | Kit     |
| LQP03TN13NJ02□ | 13nH ±5%   | 500MHz                    | 250mA         | 0.80Ω                 | 12       | 500MHz           | 2600MHz                         |         |
| LQP03TN15NH02□ | 15nH ±3%   | 500MHz                    | 250mA         | 0.70Ω                 | 12       | 500MHz           | 2600MHz                         | Kit     |
| LQP03TN15NJ02□ | 15nH ±5%   | 500MHz                    | 250mA         | 0.70Ω                 | 12       | 500MHz           | 2600MHz                         |         |
| LQP03TN16NH02□ | 16nH ±3%   | 500MHz                    | 200mA         | 0.95Ω                 | 12       | 500MHz           | 2200MHz                         | Kit     |
| LQP03TN16NJ02□ | 16nH ±5%   | 500MHz                    | 200mA         | 0.95Ω                 | 12       | 500MHz           | 2200MHz                         |         |
| LQP03TN18NH02□ | 18nH ±3%   | 500MHz                    | 200mA         | 0.80Ω                 | 12       | 500MHz           | 2200MHz                         | Kit     |
| LQP03TN18NJ02□ | 18nH ±5%   | 500MHz                    | 200mA         | 0.80Ω                 | 12       | 500MHz           | 2200MHz                         |         |
| LQP03TN20NH02□ | 20nH ±3%   | 500MHz                    | 150mA         | 2.30Ω                 | 12       | 500MHz           | 2200MHz                         | Kit     |
| LQP03TN20NJ02□ | 20nH ±5%   | 500MHz                    | 150mA         | 2.30Ω                 | 12       | 500MHz           | 2200MHz                         |         |
| LQP03TN22NH02□ | 22nH ±3%   | 500MHz                    | 150mA         | 1.90Ω                 | 12       | 500MHz           | 2200MHz                         | Kit     |
| LQP03TN22NJ02□ | 22nH ±5%   | 500MHz                    | 150mA         | 1.90Ω                 | 12       | 500MHz           | 2200MHz                         |         |
| LQP03TN24NH02□ | 24nH ±3%   | 500MHz                    | 140mA         | 2.30Ω                 | 12       | 500MHz           | 2000MHz                         | Kit     |
| LQP03TN24NJ02□ | 24nH ±5%   | 500MHz                    | 140mA         | 2.30Ω                 | 12       | 500MHz           | 2000MHz                         |         |
| LQP03TN27NH02□ | 27nH ±3%   | 500MHz                    | 140mA         | 2.30Ω                 | 12       | 500MHz           | 2000MHz                         | Kit     |
| LQP03TN27NJ02□ | 27nH ±5%   | 500MHz                    | 140mA         | 2.30Ω                 | 12       | 500MHz           | 2000MHz                         |         |
| LQP03TN30NH02□ | 30nH ±3%   | 500MHz                    | 120mA         | 2.95Ω                 | 9        | 500MHz           | 1700MHz                         | Kit     |
| LQP03TN30NJ02□ | 30nH ±5%   | 500MHz                    | 120mA         | 2.95Ω                 | 9        | 500MHz           | 1700MHz                         |         |
| LQP03TN33NJ02□ | 33nH ±5%   | 300MHz                    | 120mA         | 2.95Ω                 | 9        | 300MHz           | 1700MHz                         | Kit     |
| LQP03TN36NJ02□ | 36nH ±5%   | 300MHz                    | 120mA         | 3.00Ω                 | 9        | 300MHz           | 1500MHz                         | Kit     |
| LQP03TN39NJ02□ | 39nH ±5%   | 300MHz                    | 120mA         | 3.00Ω                 | 9        | 300MHz           | 1500MHz                         | Kit     |
| LQP03TN43NJ02□ | 43nH ±5%   | 300MHz                    | 100mA         | 3.60Ω                 | 9        | 300MHz           | 1300MHz                         | Kit     |
| LQP03TN47NJ02□ | 47nH ±5%   | 300MHz                    | 100mA         | 3.60Ω                 | 9        | 300MHz           | 1300MHz                         | Kit     |
| LQP03TN51NJ02□ | 51nH ±5%   | 300MHz                    | 100mA         | 3.90Ω                 | 9        | 300MHz           | 1200MHz                         | Kit     |
| LQP03TN56NJ02□ | 56nH ±5%   | 300MHz                    | 100mA         | 3.90Ω                 | 9        | 300MHz           | 1200MHz                         | Kit     |
| LQP03TN62NJ02□ | 62nH ±5%   | 300MHz                    | 100mA         | 8Ω                    | 8        | 300MHz           | 1100MHz                         | Kit     |
| LQP03TN68NJ02□ | 68nH ±5%   | 300MHz                    | 100mA         | 8Ω                    | 8        | 300MHz           | 1100MHz                         | Kit     |
| LQP03TN75NJ02□ | 75nH ±5%   | 300MHz                    | 100mA         | 10Ω                   | 8        | 300MHz           | 1000MHz                         | New     |
| LQP03TN82NJ02□ | 82nH ±5%   | 300MHz                    | 100mA         | 10Ω                   | 8        | 300MHz           | 1000MHz                         | Kit     |
| LQP03TN91NJ02□ | 91nH ±5%   | 300MHz                    | 80mA          | 10Ω                   | 8        | 300MHz           | 900MHz                          | New Kit |
| LQP03TNR10J02□ | 100nH ±5%  | 300MHz                    | 80mA          | 10Ω                   | 8        | 300MHz           | 900MHz                          | Kit     |

Operating Temperature Range (Self-temperature rise is not included): -55°C~+125°C  
For reflow soldering only.

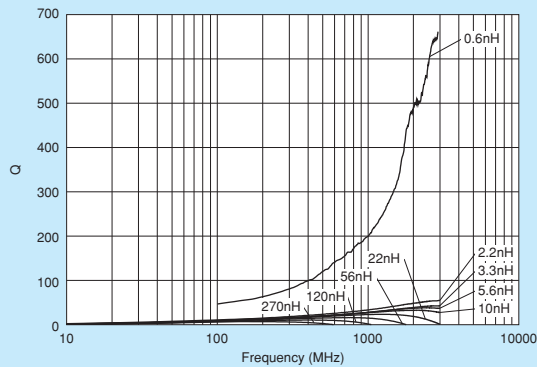
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⚠Note • Please read rating and ⚠CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.  
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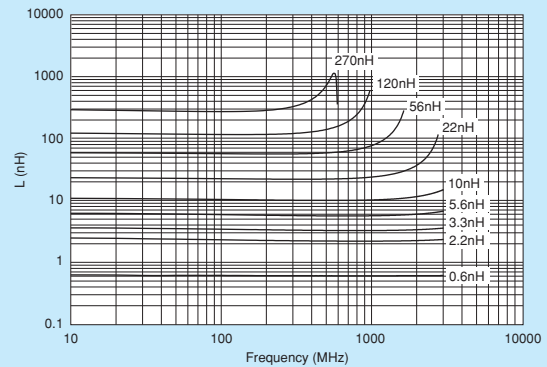
| Part Number    | Inductance | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |         |
|----------------|------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|---------|
| LQP03TNR11J02□ | 110nH ±5%  | 300MHz                    | 80mA          | 12Ω                   | 8        | 300MHz           | 800MHz                          | New Kit |
| LQP03TNR12J02□ | 120nH ±5%  | 300MHz                    | 80mA          | 12Ω                   | 8        | 300MHz           | 800MHz                          | Kit     |
| LQP03TNR13J02□ | 130nH ±5%  | 100MHz                    | 80mA          | 9Ω                    | 5        | 100MHz           | 650MHz                          | New Kit |
| LQP03TNR15J02□ | 150nH ±5%  | 100MHz                    | 80mA          | 9Ω                    | 5        | 100MHz           | 650MHz                          | Kit     |
| LQP03TNR16J02□ | 160nH ±5%  | 100MHz                    | 70mA          | 11Ω                   | 5        | 100MHz           | 600MHz                          | New Kit |
| LQP03TNR18J02□ | 180nH ±5%  | 100MHz                    | 70mA          | 11Ω                   | 5        | 100MHz           | 600MHz                          | Kit     |
| LQP03TNR20J02□ | 200nH ±5%  | 100MHz                    | 60mA          | 13Ω                   | 5        | 100MHz           | 500MHz                          | New Kit |
| LQP03TNR22J02□ | 220nH ±5%  | 100MHz                    | 60mA          | 13Ω                   | 5        | 100MHz           | 500MHz                          | Kit     |
| LQP03TNR24J02□ | 240nH ±5%  | 100MHz                    | 60mA          | 15Ω                   | 5        | 100MHz           | 450MHz                          | New Kit |
| LQP03TNR27J02□ | 270nH ±5%  | 100MHz                    | 60mA          | 15Ω                   | 5        | 100MHz           | 450MHz                          | Kit     |

Operating Temperature Range (Self-temperature rise is not included): -55°C~+125°C  
For reflow soldering only.

### ■ Q-Frequency Characteristics (Typ.)



### ■ Inductance-Frequency Characteristics (Typ.)



### ■ Reference Data

4991A&amp;16197A

| Part Number   | Q (Typ.) |         |         |         |         |
|---------------|----------|---------|---------|---------|---------|
|               | 800MHz   | 900MHz  | 1.8GHz  | 2.0GHz  | 2.4GHz  |
| LQP03TN0N6□02 | 35 min.  | 40 min. | 62 min. | 67 min. | 71 min. |
| LQP03TN0N7□02 | 35 min.  | 40 min. | 62 min. | 67 min. | 71 min. |
| LQP03TN0N8□02 | 35 min.  | 40 min. | 62 min. | 67 min. | 71 min. |
| LQP03TN0N9□02 | 35 min.  | 40 min. | 62 min. | 67 min. | 71 min. |
| LQP03TN1N0□02 | 35 min.  | 40 min. | 62 min. | 67 min. | 71 min. |
| LQP03TN1N1□02 | 35 min.  | 40 min. | 62 min. | 67 min. | 71 min. |
| LQP03TN1N2□02 | 31       | 34      | 51      | 54      | 59      |
| LQP03TN1N3□02 | 34       | 36      | 55      | 58      | 64      |
| LQP03TN1N4□02 | 31       | 34      | 52      | 55      | 61      |
| LQP03TN1N5□02 | 29       | 31      | 47      | 49      | 54      |
| LQP03TN1N6□02 | 30       | 32      | 47      | 49      | 54      |
| LQP03TN1N7□02 | 30       | 31      | 47      | 49      | 53      |
| LQP03TN1N8□02 | 32       | 34      | 50      | 53      | 57      |
| LQP03TN1N9□02 | 29       | 31      | 45      | 48      | 52      |
| LQP03TN2N0□02 | 28       | 30      | 44      | 46      | 50      |
| LQP03TN2N1□02 | 30       | 31      | 46      | 48      | 52      |
| LQP03TN2N2□02 | 30       | 32      | 46      | 48      | 52      |
| LQP03TN2N3□02 | 29       | 30      | 44      | 46      | 50      |
| LQP03TN2N4□02 | 28       | 30      | 43      | 45      | 49      |
| LQP03TN2N5□02 | 27       | 29      | 41      | 43      | 47      |

Continued on the following page.

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• This catalog has only typical specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

| Part Number   | Q (Typ.) |        |        |        |        |
|---------------|----------|--------|--------|--------|--------|
|               | 800MHz   | 900MHz | 1.8GHz | 2.0GHz | 2.4GHz |
| LQP03TN2N6□02 | 26       | 28     | 40     | 42     | 46     |
| LQP03TN2N7□02 | 28       | 29     | 42     | 44     | 47     |
| LQP03TN2N8□02 | 27       | 28     | 39     | 41     | 45     |
| LQP03TN2N9□02 | 27       | 28     | 41     | 42     | 45     |
| LQP03TN3N0□02 | 29       | 31     | 44     | 45     | 48     |
| LQP03TN3N1□02 | 28       | 29     | 40     | 42     | 46     |
| LQP03TN3N2□02 | 28       | 29     | 39     | 41     | 44     |
| LQP03TN3N3□02 | 25       | 26     | 37     | 39     | 42     |
| LQP03TN3N4□02 | 25       | 27     | 37     | 38     | 41     |
| LQP03TN3N5□02 | 27       | 28     | 40     | 41     | 43     |
| LQP03TN3N6□02 | 26       | 27     | 38     | 39     | 41     |
| LQP03TN3N7□02 | 26       | 27     | 38     | 39     | 41     |
| LQP03TN3N8□02 | 25       | 27     | 37     | 38     | 39     |
| LQP03TN3N9□02 | 24       | 26     | 36     | 37     | 39     |
| LQP03TN4N0□02 | 26       | 27     | 37     | 38     | 40     |
| LQP03TN4N1□02 | 25       | 26     | 36     | 37     | 39     |
| LQP03TN4N2□02 | 25       | 27     | 37     | 38     | 40     |
| LQP03TN4N3□02 | 24       | 26     | 36     | 37     | 39     |
| LQP03TN4N7□02 | 25       | 27     | 37     | 38     | 39     |
| LQP03TN5N1□02 | 26       | 28     | 35     | 36     | 37     |
| LQP03TN5N6□02 | 25       | 26     | 36     | 37     | 38     |
| LQP03TN6N2□02 | 23       | 25     | 33     | 34     | 35     |
| LQP03TN6N8□02 | 25       | 27     | 36     | 37     | 37     |
| LQP03TN7N5□02 | 25       | 26     | 34     | 35     | 35     |
| LQP03TN8N2□02 | 24       | 25     | 33     | 34     | 33     |
| LQP03TN9N1□02 | 25       | 26     | 32     | 32     | 31     |
| LQP03TN10N□02 | 24       | 26     | 32     | 32     | 32     |
| LQP03TN11N□02 | 24       | 25     | 29     | 29     | 27     |
| LQP03TN12N□02 | 23       | 24     | 27     | 26     | 23     |
| LQP03TN13N□02 | 23       | 24     | 27     | 26     | 22     |
| LQP03TN15N□02 | 23       | 24     | 25     | 24     | 19     |
| LQP03TN16N□02 | 23       | 24     | 24     | 23     | 18     |
| LQP03TN18N□02 | 23       | 24     | 23     | 20     | 14     |
| LQP03TN20N□02 | 21       | 22     | 22     | 20     | 15     |
| LQP03TN22N□02 | 22       | 22     | 21     | -      | -      |
| LQP03TN24N□02 | 21       | 21     | 19     | -      | -      |
| LQP03TN27N□02 | 21       | 22     | 21     | -      | -      |
| LQP03TN30N□02 | 19       | 20     | -      | -      | -      |
| LQP03TN33N□02 | 20       | 20     | -      | -      | -      |
| LQP03TN36N□02 | 18       | 18     | -      | -      | -      |
| LQP03TN39N□02 | 18       | 18     | -      | -      | -      |
| LQP03TN43N□02 | 17       | 16     | -      | -      | -      |
| LQP03TN47N□02 | 17       | 16     | -      | -      | -      |
| LQP03TN51N□02 | 17       | 17     | -      | -      | -      |
| LQP03TN56N□02 | 16       | 16     | -      | -      | -      |
| LQP03TN62N□02 | 15       | 14     | -      | -      | -      |
| LQP03TN68N□02 | 11       | 10     | -      | -      | -      |
| LQP03TN75N□02 | 10       | 9      | -      | -      | -      |
| LQP03TN82N□02 | 11       | 10     | -      | -      | -      |
| LQP03TN91N□02 | 9        | 8      | -      | -      | -      |
| LQP03TNR10□02 | 8        | 6      | -      | -      | -      |
| LQP03TNR11□02 | 7        | 5      | -      | -      | -      |
| LQP03TNR12□02 | 7        | 4      | -      | -      | -      |

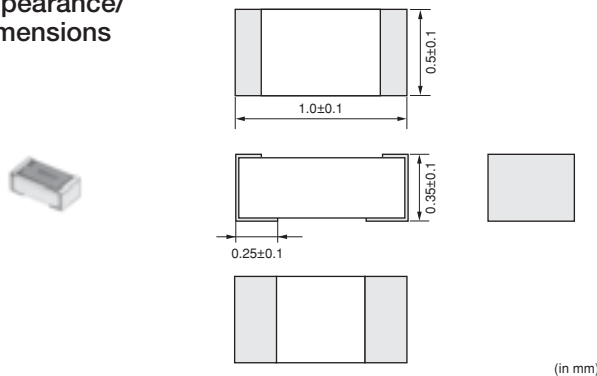
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# LQP15MN\_02

Series 0402/1005 (inch/mm)

Size Code 0402 (1005) in inch (in mm), Tight Inductance Tolerance, Film Type

## Appearance/Dimensions



## Packaging

| Code | Packaging           | Minimum Quantity |
|------|---------------------|------------------|
| D    | ø180mm Paper Taping | 10000            |
| J    | ø330mm Paper Taping | 50000            |
| B    | Packing in Bulk     | 500              |



Refer to pages 227 to 230 for mounting information.

## Rated Value (□: packaging code)

| Part Number    | Inductance    | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |     |
|----------------|---------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|-----|
| LQP15MN1N0B02□ | 1.0nH ±0.1nH  | 500MHz                    | 400mA         | 0.1Ω                  | 13       | 500MHz           | 6000MHz                         | Kit |
| LQP15MN1N0W02□ | 1.0nH ±0.05nH | 500MHz                    | 400mA         | 0.1Ω                  | 13       | 500MHz           | 6000MHz                         |     |
| LQP15MN1N1B02□ | 1.1nH ±0.1nH  | 500MHz                    | 390mA         | 0.1Ω                  | 13       | 500MHz           | 6000MHz                         | Kit |
| LQP15MN1N1W02□ | 1.1nH ±0.05nH | 500MHz                    | 390mA         | 0.1Ω                  | 13       | 500MHz           | 6000MHz                         |     |
| LQP15MN1N2B02□ | 1.2nH ±0.1nH  | 500MHz                    | 390mA         | 0.1Ω                  | 13       | 500MHz           | 6000MHz                         | Kit |
| LQP15MN1N2W02□ | 1.2nH ±0.05nH | 500MHz                    | 390mA         | 0.1Ω                  | 13       | 500MHz           | 6000MHz                         |     |
| LQP15MN1N3B02□ | 1.3nH ±0.1nH  | 500MHz                    | 280mA         | 0.2Ω                  | 13       | 500MHz           | 6000MHz                         | Kit |
| LQP15MN1N3W02□ | 1.3nH ±0.05nH | 500MHz                    | 280mA         | 0.2Ω                  | 13       | 500MHz           | 6000MHz                         |     |
| LQP15MN1N4W02□ | 1.4nH ±0.05nH | 500MHz                    | 280mA         | 0.2Ω                  | 13       | 500MHz           | 6000MHz                         |     |
| LQP15MN1N5B02□ | 1.5nH ±0.1nH  | 500MHz                    | 280mA         | 0.2Ω                  | 13       | 500MHz           | 6000MHz                         | Kit |
| LQP15MN1N5W02□ | 1.5nH ±0.05nH | 500MHz                    | 280mA         | 0.2Ω                  | 13       | 500MHz           | 6000MHz                         |     |
| LQP15MN1N6B02□ | 1.6nH ±0.1nH  | 500MHz                    | 220mA         | 0.3Ω                  | 13       | 500MHz           | 6000MHz                         | Kit |
| LQP15MN1N6W02□ | 1.6nH ±0.05nH | 500MHz                    | 220mA         | 0.3Ω                  | 13       | 500MHz           | 6000MHz                         |     |
| LQP15MN1N7W02□ | 1.7nH ±0.05nH | 500MHz                    | 280mA         | 0.2Ω                  | 13       | 500MHz           | 6000MHz                         |     |
| LQP15MN1N8B02□ | 1.8nH ±0.1nH  | 500MHz                    | 280mA         | 0.2Ω                  | 13       | 500MHz           | 6000MHz                         | Kit |
| LQP15MN1N8W02□ | 1.8nH ±0.05nH | 500MHz                    | 280mA         | 0.2Ω                  | 13       | 500MHz           | 6000MHz                         |     |
| LQP15MN1N9W02□ | 1.9nH ±0.05nH | 500MHz                    | 220mA         | 0.3Ω                  | 13       | 500MHz           | 6000MHz                         |     |
| LQP15MN2N0B02□ | 2.0nH ±0.1nH  | 500MHz                    | 220mA         | 0.3Ω                  | 13       | 500MHz           | 6000MHz                         | Kit |
| LQP15MN2N0W02□ | 2.0nH ±0.05nH | 500MHz                    | 220mA         | 0.3Ω                  | 13       | 500MHz           | 6000MHz                         |     |
| LQP15MN2N1W02□ | 2.1nH ±0.05nH | 500MHz                    | 220mA         | 0.3Ω                  | 13       | 500MHz           | 6000MHz                         |     |
| LQP15MN2N2B02□ | 2.2nH ±0.1nH  | 500MHz                    | 220mA         | 0.3Ω                  | 13       | 500MHz           | 6000MHz                         | Kit |
| LQP15MN2N2W02□ | 2.2nH ±0.05nH | 500MHz                    | 220mA         | 0.3Ω                  | 13       | 500MHz           | 6000MHz                         |     |
| LQP15MN2N3W02□ | 2.3nH ±0.05nH | 500MHz                    | 220mA         | 0.3Ω                  | 13       | 500MHz           | 6000MHz                         |     |
| LQP15MN2N4B02□ | 2.4nH ±0.1nH  | 500MHz                    | 220mA         | 0.3Ω                  | 13       | 500MHz           | 6000MHz                         | Kit |
| LQP15MN2N4W02□ | 2.4nH ±0.05nH | 500MHz                    | 220mA         | 0.3Ω                  | 13       | 500MHz           | 6000MHz                         |     |
| LQP15MN2N5W02□ | 2.5nH ±0.05nH | 500MHz                    | 220mA         | 0.3Ω                  | 13       | 500MHz           | 6000MHz                         |     |
| LQP15MN2N6W02□ | 2.6nH ±0.05nH | 500MHz                    | 220mA         | 0.3Ω                  | 13       | 500MHz           | 6000MHz                         |     |
| LQP15MN2N7B02□ | 2.7nH ±0.1nH  | 500MHz                    | 220mA         | 0.3Ω                  | 13       | 500MHz           | 6000MHz                         | Kit |
| LQP15MN2N7W02□ | 2.7nH ±0.05nH | 500MHz                    | 220mA         | 0.3Ω                  | 13       | 500MHz           | 6000MHz                         |     |
| LQP15MN2N8W02□ | 2.8nH ±0.05nH | 500MHz                    | 190mA         | 0.4Ω                  | 13       | 500MHz           | 6000MHz                         |     |
| LQP15MN2N9W02□ | 2.9nH ±0.05nH | 500MHz                    | 190mA         | 0.4Ω                  | 13       | 500MHz           | 6000MHz                         |     |
| LQP15MN3N0B02□ | 3.0nH ±0.1nH  | 500MHz                    | 190mA         | 0.4Ω                  | 13       | 500MHz           | 6000MHz                         | Kit |

Operating Temperature Range (Self-temperature rise is not included): -40℃~+85℃  
For reflow soldering only.

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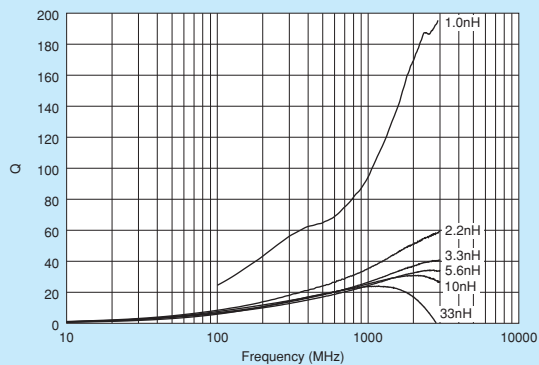
△Note • Please read rating and △CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.  
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Nov.25,2013

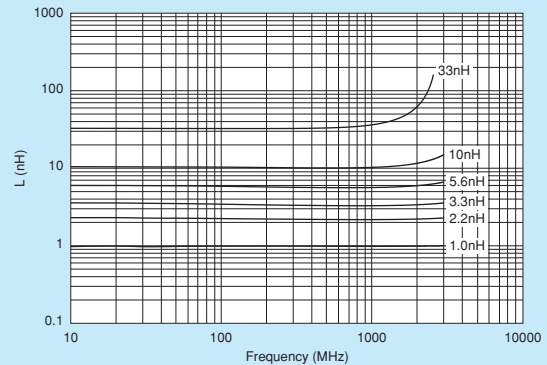
| Part Number    | Inductance          | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |     |
|----------------|---------------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|-----|
| LQP15MN3N0W02□ | 3.0nH $\pm 0.05$ nH | 500MHz                    | 190mA         | 0.4 $\Omega$          | 13       | 500MHz           | 6000MHz                         |     |
| LQP15MN3N1W02□ | 3.1nH $\pm 0.05$ nH | 500MHz                    | 190mA         | 0.4 $\Omega$          | 13       | 500MHz           | 6000MHz                         |     |
| LQP15MN3N2W02□ | 3.2nH $\pm 0.05$ nH | 500MHz                    | 190mA         | 0.4 $\Omega$          | 13       | 500MHz           | 6000MHz                         |     |
| LQP15MN3N3B02□ | 3.3nH $\pm 0.1$ nH  | 500MHz                    | 190mA         | 0.4 $\Omega$          | 13       | 500MHz           | 6000MHz                         | Kit |
| LQP15MN3N3W02□ | 3.3nH $\pm 0.05$ nH | 500MHz                    | 190mA         | 0.4 $\Omega$          | 13       | 500MHz           | 6000MHz                         |     |
| LQP15MN3N4W02□ | 3.4nH $\pm 0.05$ nH | 500MHz                    | 170mA         | 0.5 $\Omega$          | 13       | 500MHz           | 6000MHz                         |     |
| LQP15MN3N5W02□ | 3.5nH $\pm 0.05$ nH | 500MHz                    | 170mA         | 0.5 $\Omega$          | 13       | 500MHz           | 6000MHz                         |     |
| LQP15MN3N6B02□ | 3.6nH $\pm 0.1$ nH  | 500MHz                    | 170mA         | 0.5 $\Omega$          | 13       | 500MHz           | 6000MHz                         | Kit |
| LQP15MN3N6W02□ | 3.6nH $\pm 0.05$ nH | 500MHz                    | 170mA         | 0.5 $\Omega$          | 13       | 500MHz           | 6000MHz                         |     |
| LQP15MN3N7W02□ | 3.7nH $\pm 0.05$ nH | 500MHz                    | 170mA         | 0.5 $\Omega$          | 13       | 500MHz           | 6000MHz                         |     |
| LQP15MN3N8W02□ | 3.8nH $\pm 0.05$ nH | 500MHz                    | 170mA         | 0.5 $\Omega$          | 13       | 500MHz           | 6000MHz                         |     |
| LQP15MN3N9B02□ | 3.9nH $\pm 0.1$ nH  | 500MHz                    | 170mA         | 0.5 $\Omega$          | 13       | 500MHz           | 6000MHz                         | Kit |
| LQP15MN3N9W02□ | 3.9nH $\pm 0.05$ nH | 500MHz                    | 170mA         | 0.5 $\Omega$          | 13       | 500MHz           | 6000MHz                         |     |
| LQP15MN4N3B02□ | 4.3nH $\pm 0.1$ nH  | 500MHz                    | 160mA         | 0.6 $\Omega$          | 13       | 500MHz           | 6000MHz                         | Kit |
| LQP15MN4N7B02□ | 4.7nH $\pm 0.1$ nH  | 500MHz                    | 160mA         | 0.6 $\Omega$          | 13       | 500MHz           | 6000MHz                         | Kit |
| LQP15MN5N1B02□ | 5.1nH $\pm 0.1$ nH  | 500MHz                    | 140mA         | 0.7 $\Omega$          | 13       | 500MHz           | 6000MHz                         | Kit |
| LQP15MN5N6B02□ | 5.6nH $\pm 0.1$ nH  | 500MHz                    | 140mA         | 0.7 $\Omega$          | 13       | 500MHz           | 6000MHz                         | Kit |
| LQP15MN6N2B02□ | 6.2nH $\pm 0.1$ nH  | 500MHz                    | 130mA         | 0.9 $\Omega$          | 13       | 500MHz           | 6000MHz                         | Kit |
| LQP15MN6N8B02□ | 6.8nH $\pm 0.1$ nH  | 500MHz                    | 130mA         | 0.9 $\Omega$          | 13       | 500MHz           | 6000MHz                         | Kit |
| LQP15MN7N5B02□ | 7.5nH $\pm 0.1$ nH  | 500MHz                    | 110mA         | 1.1 $\Omega$          | 13       | 500MHz           | 5500MHz                         | Kit |
| LQP15MN8N2B02□ | 8.2nH $\pm 0.1$ nH  | 500MHz                    | 110mA         | 1.1 $\Omega$          | 13       | 500MHz           | 5500MHz                         | Kit |
| LQP15MN9N1B02□ | 9.1nH $\pm 0.1$ nH  | 500MHz                    | 100mA         | 1.3 $\Omega$          | 13       | 500MHz           | 4500MHz                         | Kit |
| LQP15MN10NG02□ | 10nH $\pm 2\%$      | 500MHz                    | 100mA         | 1.3 $\Omega$          | 13       | 500MHz           | 4500MHz                         | Kit |
| LQP15MN12NG02□ | 12nH $\pm 2\%$      | 500MHz                    | 90mA          | 1.6 $\Omega$          | 13       | 500MHz           | 3700MHz                         | Kit |
| LQP15MN15NG02□ | 15nH $\pm 2\%$      | 500MHz                    | 90mA          | 1.8 $\Omega$          | 13       | 500MHz           | 3300MHz                         | Kit |
| LQP15MN18NG02□ | 18nH $\pm 2\%$      | 500MHz                    | 80mA          | 2.0 $\Omega$          | 13       | 500MHz           | 3100MHz                         | Kit |
| LQP15MN22NG02□ | 22nH $\pm 2\%$      | 500MHz                    | 70mA          | 2.6 $\Omega$          | 13       | 500MHz           | 2800MHz                         | Kit |
| LQP15MN27NG02□ | 27nH $\pm 2\%$      | 500MHz                    | 70mA          | 3.1 $\Omega$          | 13       | 500MHz           | 2500MHz                         | Kit |
| LQP15MN33NG02□ | 33nH $\pm 2\%$      | 500MHz                    | 60mA          | 3.8 $\Omega$          | 13       | 500MHz           | 2100MHz                         | Kit |

Operating Temperature Range (Self-temperature rise is not included): -40°C~+85°C  
For reflow soldering only.

■ Q-Frequency Characteristics (Typ.)



■ Inductance-Frequency Characteristics (Typ.)



Continued on the following page.

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## ■ Reference Data

4991A&amp;16197A

| Part Number   | Q (Typ.) |        |        |        |        |
|---------------|----------|--------|--------|--------|--------|
|               | 800MHz   | 900MHz | 1.8GHz | 2.0GHz | 2.4GHz |
| LQP15MN1N0□02 | 80       | 88     | 157    | 172    | 188    |
| LQP15MN1N1□02 | 60       | 65     | 107    | 115    | 125    |
| LQP15MN1N2□02 | 56       | 61     | 100    | 104    | 114    |
| LQP15MN1N3□02 | 46       | 50     | 77     | 81     | 86     |
| LQP15MN1N4□02 | 40       | 44     | 65     | 68     | 73     |
| LQP15MN1N5□02 | 34       | 36     | 55     | 57     | 62     |
| LQP15MN1N6□02 | 25       | 27     | 40     | 42     | 46     |
| LQP15MN1N7□02 | 29       | 32     | 47     | 49     | 53     |
| LQP15MN1N8□02 | 32       | 35     | 51     | 53     | 57     |
| LQP15MN1N9□02 | 34       | 36     | 54     | 56     | 60     |
| LQP15MN2N0□02 | 32       | 34     | 51     | 53     | 57     |
| LQP15MN2N1□02 | 34       | 37     | 55     | 57     | 61     |
| LQP15MN2N2□02 | 31       | 33     | 49     | 51     | 55     |
| LQP15MN2N3□02 | 32       | 34     | 51     | 54     | 58     |
| LQP15MN2N4□02 | 32       | 34     | 51     | 53     | 57     |
| LQP15MN2N5□02 | 31       | 33     | 50     | 52     | 56     |
| LQP15MN2N6□02 | 29       | 32     | 47     | 49     | 53     |
| LQP15MN2N7□02 | 29       | 32     | 47     | 49     | 53     |
| LQP15MN2N8□02 | 28       | 30     | 45     | 46     | 50     |
| LQP15MN2N9□02 | 28       | 30     | 44     | 45     | 48     |
| LQP15MN3N0□02 | 27       | 29     | 43     | 44     | 48     |
| LQP15MN3N1□02 | 25       | 27     | 39     | 41     | 44     |
| LQP15MN3N2□02 | 24       | 26     | 36     | 37     | 40     |
| LQP15MN3N3□02 | 23       | 25     | 36     | 37     | 39     |
| LQP15MN3N4□02 | 24       | 25     | 36     | 37     | 39     |
| LQP15MN3N5□02 | 25       | 27     | 38     | 39     | 42     |
| LQP15MN3N6□02 | 24       | 26     | 38     | 39     | 42     |
| LQP15MN3N7□02 | 25       | 27     | 38     | 39     | 42     |
| LQP15MN3N8□02 | 25       | 26     | 37     | 38     | 41     |
| LQP15MN3N9□02 | 25       | 27     | 38     | 40     | 42     |
| LQP15MN4N3□02 | 25       | 26     | 38     | 39     | 42     |
| LQP15MN4N7□02 | 26       | 28     | 40     | 41     | 43     |
| LQP15MN5N1□02 | 26       | 27     | 39     | 40     | 42     |
| LQP15MN5N6□02 | 22       | 23     | 32     | 32     | 34     |
| LQP15MN6N2□02 | 22       | 23     | 33     | 33     | 35     |
| LQP15MN6N8□02 | 22       | 24     | 32     | 33     | 34     |
| LQP15MN7N5□02 | 23       | 24     | 32     | 33     | 34     |
| LQP15MN8N2□02 | 23       | 25     | 34     | 35     | 36     |
| LQP15MN9N1□02 | 23       | 24     | 33     | 33     | 34     |
| LQP15MN10N□02 | 23       | 24     | 31     | 31     | -      |
| LQP15MN12N□02 | 24       | 26     | 32     | 32     | -      |
| LQP15MN15N□02 | 23       | 24     | 28     | 28     | -      |
| LQP15MN18N□02 | 22       | 23     | 25     | 24     | -      |
| LQP15MN22N□02 | 23       | 24     | 24     | 22     | -      |
| LQP15MN27N□02 | 23       | 24     | 22     | 20     | -      |
| LQP15MN33N□02 | 22       | 23     | 20     | -      | -      |

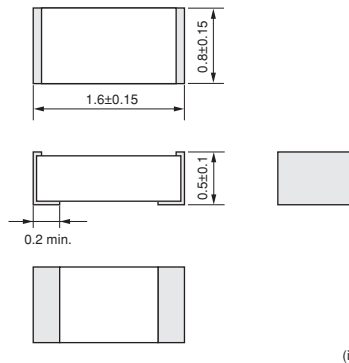
△Note • Please read rating and △CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.  
 • This catalog has only typical specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

# LQP18MN\_02

Series 0603/1608 (inch/mm)

Size Code 0603 (1608) in inch (in mm), Film Type

## ■ Appearance/Dimensions



## ■ Packaging

| Code | Packaging           | Minimum Quantity |
|------|---------------------|------------------|
| D    | ø180mm Paper Taping | 4000             |
| J    | ø330mm Paper Taping | 10000            |
| B    | Packing in Bulk     | 500              |



Refer to pages 227 to 230 for mounting information.

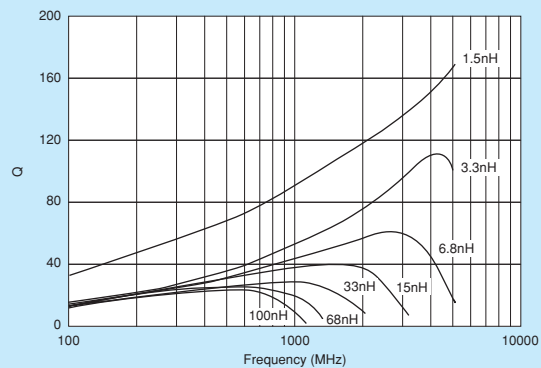
## ■ Rated Value (□: packaging code)

| Part Number    | Inductance   | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |
|----------------|--------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|
| LQP18MN1N3C02□ | 1.3nH ±0.2nH | 500MHz                    | 300mA         | 0.3Ω                  | 17       | 500MHz           | 6000MHz                         |
| LQP18MN1N5C02□ | 1.5nH ±0.2nH | 500MHz                    | 300mA         | 0.3Ω                  | 17       | 500MHz           | 6000MHz                         |
| LQP18MN1N8C02□ | 1.8nH ±0.2nH | 500MHz                    | 250mA         | 0.4Ω                  | 17       | 500MHz           | 6000MHz                         |
| LQP18MN2N2C02□ | 2.2nH ±0.2nH | 500MHz                    | 250mA         | 0.4Ω                  | 17       | 500MHz           | 6000MHz                         |
| LQP18MN2N7C02□ | 2.7nH ±0.2nH | 500MHz                    | 250mA         | 0.4Ω                  | 17       | 500MHz           | 6000MHz                         |
| LQP18MN3N3C02□ | 3.3nH ±0.2nH | 500MHz                    | 250mA         | 0.4Ω                  | 17       | 500MHz           | 6000MHz                         |
| LQP18MN3N9C02□ | 3.9nH ±0.2nH | 500MHz                    | 200mA         | 0.5Ω                  | 17       | 500MHz           | 5900MHz                         |
| LQP18MN4N7C02□ | 4.7nH ±0.2nH | 500MHz                    | 200mA         | 0.5Ω                  | 17       | 500MHz           | 5200MHz                         |
| LQP18MN5N6C02□ | 5.6nH ±0.2nH | 500MHz                    | 200mA         | 0.6Ω                  | 17       | 500MHz           | 4700MHz                         |
| LQP18MN6N8C02□ | 6.8nH ±0.2nH | 500MHz                    | 200mA         | 0.7Ω                  | 17       | 500MHz           | 4300MHz                         |
| LQP18MN8N2C02□ | 8.2nH ±0.2nH | 500MHz                    | 150mA         | 0.8Ω                  | 17       | 500MHz           | 3600MHz                         |
| LQP18MN10NG02□ | 10nH ±2%     | 500MHz                    | 150mA         | 1.0Ω                  | 17       | 500MHz           | 3400MHz                         |
| LQP18MN12NG02□ | 12nH ±2%     | 500MHz                    | 150mA         | 1.0Ω                  | 17       | 500MHz           | 3000MHz                         |
| LQP18MN15NG02□ | 15nH ±2%     | 500MHz                    | 150mA         | 1.3Ω                  | 17       | 500MHz           | 2700MHz                         |
| LQP18MN18NG02□ | 18nH ±2%     | 500MHz                    | 100mA         | 1.5Ω                  | 17       | 500MHz           | 2300MHz                         |
| LQP18MN22NG02□ | 22nH ±2%     | 500MHz                    | 100mA         | 1.9Ω                  | 17       | 500MHz           | 2100MHz                         |
| LQP18MN27NG02□ | 27nH ±2%     | 500MHz                    | 100mA         | 2.4Ω                  | 17       | 500MHz           | 1900MHz                         |
| LQP18MN33NG02□ | 33nH ±2%     | 500MHz                    | 100mA         | 2.8Ω                  | 17       | 500MHz           | 1700MHz                         |
| LQP18MN39NG02□ | 39nH ±2%     | 500MHz                    | 100mA         | 2.8Ω                  | 17       | 500MHz           | 1400MHz                         |
| LQP18MN47NG02□ | 47nH ±2%     | 300MHz                    | 100mA         | 2.2Ω                  | 17       | 300MHz           | 1200MHz                         |
| LQP18MN56NG02□ | 56nH ±2%     | 300MHz                    | 50mA          | 3.4Ω                  | 17       | 300MHz           | 1000MHz                         |
| LQP18MN68NG02□ | 68nH ±2%     | 300MHz                    | 50mA          | 3.5Ω                  | 17       | 300MHz           | 900MHz                          |
| LQP18MN82NG02□ | 82nH ±2%     | 300MHz                    | 50mA          | 4.6Ω                  | 17       | 300MHz           | 800MHz                          |
| LQP18MNR10G02□ | 100nH ±2%    | 300MHz                    | 50mA          | 6.1Ω                  | 17       | 300MHz           | 700MHz                          |

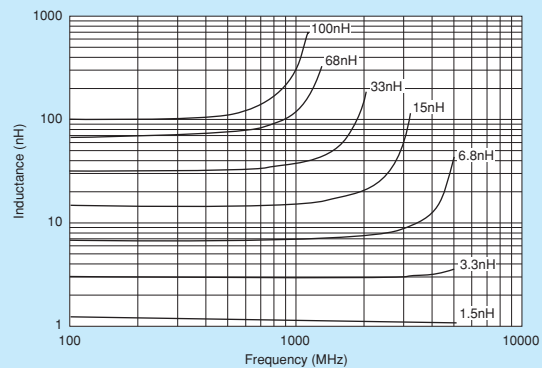
Operating Temperature Range (Self-temperature rise is not included): -40°C~+85°C  
For reflow soldering only.

Continued on the following page.

### ■ Q-Frequency Characteristics (Typ.)



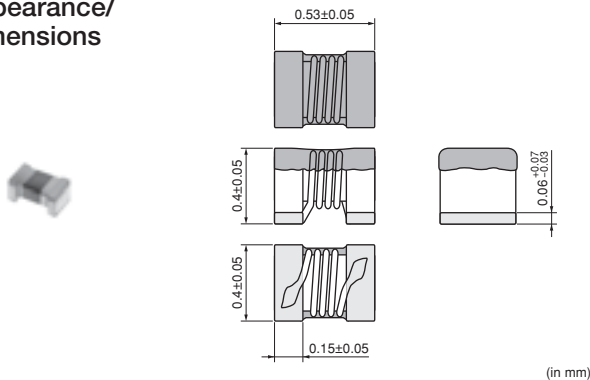
### ■ Inductance-Frequency Characteristics (Typ.)



# LQW03AW\_00 Series

## Suitable for Mounting in a Narrow Space in Antenna Matching Circuits

### ■ Appearance/Dimensions



### ■ Packaging

| Code | Packaging           | Minimum Quantity |
|------|---------------------|------------------|
| D    | ø180mm Paper Taping | 10000            |



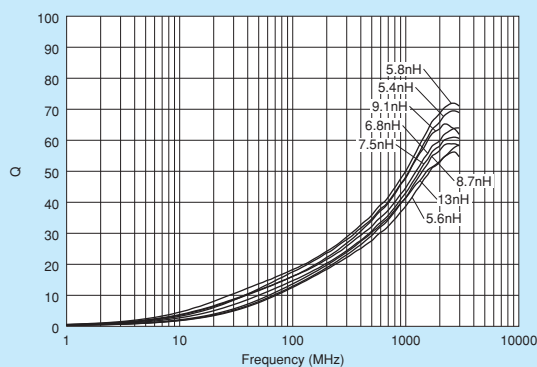
Refer to pages 227 to 230 for mounting information.

### ■ Rated Value (□: packaging code)

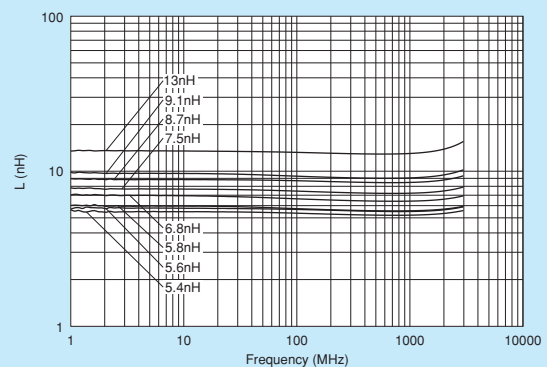
| Part Number    | Inductance         | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.)  | Q Test Frequency | Self-Resonance Frequency (min.) |         |
|----------------|--------------------|---------------------------|---------------|-----------------------|-----------|------------------|---------------------------------|---------|
| LQW03AW5N4C00□ | 5.4nH $\pm 0.2$ nH | 100MHz                    | 420mA         | 0.21 $\Omega$         | 46 (Typ.) | 900MHz           | 8.5GHz                          | New     |
| LQW03AW5N4J00□ | 5.4nH $\pm 5\%$    | 100MHz                    | 420mA         | 0.21 $\Omega$         | 46 (Typ.) | 900MHz           | 8.5GHz                          | New Kit |
| LQW03AW5N6C00□ | 5.6nH $\pm 0.2$ nH | 100MHz                    | 330mA         | 0.33 $\Omega$         | 37 (Typ.) | 900MHz           | 8.3GHz                          | New     |
| LQW03AW5N6J00□ | 5.6nH $\pm 5\%$    | 100MHz                    | 330mA         | 0.33 $\Omega$         | 37 (Typ.) | 900MHz           | 8.3GHz                          | New Kit |
| LQW03AW5N8C00□ | 5.8nH $\pm 0.2$ nH | 100MHz                    | 460mA         | 0.16 $\Omega$         | 47 (Typ.) | 900MHz           | 8.8GHz                          | New     |
| LQW03AW5N8J00□ | 5.8nH $\pm 5\%$    | 100MHz                    | 460mA         | 0.16 $\Omega$         | 47 (Typ.) | 900MHz           | 8.8GHz                          | New Kit |
| LQW03AW6N8C00□ | 6.8nH $\pm 0.2$ nH | 100MHz                    | 460mA         | 0.18 $\Omega$         | 42 (Typ.) | 900MHz           | 7.7GHz                          | New     |
| LQW03AW6N8J00□ | 6.8nH $\pm 5\%$    | 100MHz                    | 460mA         | 0.18 $\Omega$         | 42 (Typ.) | 900MHz           | 7.7GHz                          | New Kit |
| LQW03AW7N5C00□ | 7.5nH $\pm 0.2$ nH | 100MHz                    | 400mA         | 0.24 $\Omega$         | 41 (Typ.) | 900MHz           | 7.5GHz                          | New     |
| LQW03AW7N5J00□ | 7.5nH $\pm 5\%$    | 100MHz                    | 400mA         | 0.24 $\Omega$         | 41 (Typ.) | 900MHz           | 7.5GHz                          | New Kit |
| LQW03AW8N7C00□ | 8.7nH $\pm 0.2$ nH | 100MHz                    | 290mA         | 0.42 $\Omega$         | 39 (Typ.) | 900MHz           | 7.5GHz                          | New     |
| LQW03AW8N7J00□ | 8.7nH $\pm 5\%$    | 100MHz                    | 290mA         | 0.42 $\Omega$         | 39 (Typ.) | 900MHz           | 7.5GHz                          | New Kit |
| LQW03AW9N1C00□ | 9.1nH $\pm 0.2$ nH | 100MHz                    | 460mA         | 0.22 $\Omega$         | 46 (Typ.) | 900MHz           | 6.4GHz                          | New     |
| LQW03AW9N1J00□ | 9.1nH $\pm 5\%$    | 100MHz                    | 460mA         | 0.22 $\Omega$         | 46 (Typ.) | 900MHz           | 6.4GHz                          | New Kit |
| LQW03AW13N00□  | 13nH $\pm 5\%$     | 100MHz                    | 280mA         | 0.54 $\Omega$         | 39 (Typ.) | 900MHz           | 5.9GHz                          | New Kit |

Operating Temperature Range (Self-temperature rise is included): -55°C ~ +125°C  
For reflow soldering only.

### ■ Q-Frequency Characteristics (Typ.)



### ■ Inductance-Frequency Characteristics (Typ.)



Continued on the following page.

⚠Note • Please read rating and ⚠CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.  
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# Reference Data

4991A&amp;16197A

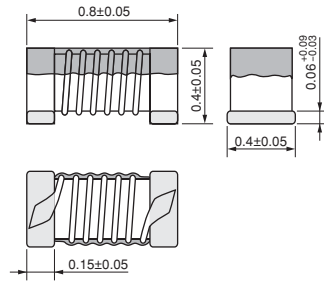
| Part Number | Inductance (nH) | Q (Typ.) |        |        |        |        |
|-------------|-----------------|----------|--------|--------|--------|--------|
|             | Nominal         | 800MHz   | 900MHz | 1.8GHz | 2.0GHz | 2.4GHz |
| LQW03AW5N4  | 5.4             | 43       | 46     | 64     | 66     | 69     |
| LQW03AW5N6  | 5.6             | 34       | 37     | 51     | 53     | 56     |
| LQW03AW5N8  | 5.8             | 44       | 48     | 67     | 68     | 71     |
| LQW03AW6N8  | 6.8             | 40       | 42     | 59     | 60     | 63     |
| LQW03AW7N5  | 7.5             | 38       | 41     | 57     | 58     | 61     |
| LQW03AW8N7  | 8.7             | 37       | 39     | 55     | 56     | 59     |
| LQW03AW9N1  | 9.1             | 42       | 46     | 63     | 63     | 65     |
| LQW03AW13N  | 13.0            | 37       | 40     | 52     | 53     | 55     |

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# LQW04AN\_00

Series 03015/0804 (inch/mm)

Size Code 03015 (0804) in inch (in mm), Wound Type

■ Appearance/  
Dimensions

(in mm)

## ■ Packaging

| Code | Packaging           | Minimum Quantity |
|------|---------------------|------------------|
| D    | ø180mm Paper Taping | 10000            |
| B    | Packing in Bulk     | 500              |



Refer to pages 227 to 230 for mounting information.

## ■ Rated Value (□: packaging code)

| Part Number    | Inductance   | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |     |
|----------------|--------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|-----|
| LQW04AN1N1C00□ | 1.1nH ±0.2nH | 100MHz                    | 990mA         | 0.03Ω                 | 15       | 250MHz           | 20.0GHz                         | Kit |
| LQW04AN1N1D00□ | 1.1nH ±0.5nH | 100MHz                    | 990mA         | 0.03Ω                 | 15       | 250MHz           | 20.0GHz                         |     |
| LQW04AN1N8C00□ | 1.8nH ±0.2nH | 100MHz                    | 700mA         | 0.06Ω                 | 15       | 250MHz           | 17.0GHz                         | Kit |
| LQW04AN1N8D00□ | 1.8nH ±0.5nH | 100MHz                    | 700mA         | 0.06Ω                 | 15       | 250MHz           | 17.0GHz                         |     |
| LQW04AN2N7C00□ | 2.7nH ±0.2nH | 100MHz                    | 570mA         | 0.07Ω                 | 15       | 250MHz           | 15.0GHz                         | Kit |
| LQW04AN2N7D00□ | 2.7nH ±0.5nH | 100MHz                    | 570mA         | 0.07Ω                 | 15       | 250MHz           | 15.0GHz                         |     |
| LQW04AN3N0C00□ | 3.0nH ±0.2nH | 100MHz                    | 620mA         | 0.07Ω                 | 15       | 250MHz           | 13.0GHz                         | Kit |
| LQW04AN3N0D00□ | 3.0nH ±0.5nH | 100MHz                    | 620mA         | 0.07Ω                 | 15       | 250MHz           | 13.0GHz                         |     |
| LQW04AN3N3C00□ | 3.3nH ±0.2nH | 100MHz                    | 440mA         | 0.14Ω                 | 10       | 250MHz           | 10.0GHz                         | Kit |
| LQW04AN3N3D00□ | 3.3nH ±0.5nH | 100MHz                    | 440mA         | 0.14Ω                 | 10       | 250MHz           | 10.0GHz                         |     |
| LQW04AN3N6C00□ | 3.6nH ±0.2nH | 100MHz                    | 530mA         | 0.10Ω                 | 15       | 250MHz           | 13.0GHz                         | Kit |
| LQW04AN3N6D00□ | 3.6nH ±0.5nH | 100MHz                    | 530mA         | 0.10Ω                 | 15       | 250MHz           | 13.0GHz                         |     |
| LQW04AN3N9C00□ | 3.9nH ±0.2nH | 100MHz                    | 530mA         | 0.10Ω                 | 15       | 250MHz           | 12.0GHz                         | Kit |
| LQW04AN3N9D00□ | 3.9nH ±0.5nH | 100MHz                    | 530mA         | 0.10Ω                 | 15       | 250MHz           | 12.0GHz                         |     |
| LQW04AN4N3C00□ | 4.3nH ±0.2nH | 100MHz                    | 530mA         | 0.10Ω                 | 15       | 250MHz           | 11.0GHz                         | Kit |
| LQW04AN4N3D00□ | 4.3nH ±0.5nH | 100MHz                    | 530mA         | 0.10Ω                 | 15       | 250MHz           | 11.0GHz                         |     |
| LQW04AN4N7C00□ | 4.7nH ±0.2nH | 100MHz                    | 440mA         | 0.14Ω                 | 20       | 250MHz           | 10.0GHz                         | Kit |
| LQW04AN4N7D00□ | 4.7nH ±0.5nH | 100MHz                    | 440mA         | 0.14Ω                 | 20       | 250MHz           | 10.0GHz                         |     |
| LQW04AN5N1C00□ | 5.1nH ±0.2nH | 100MHz                    | 470mA         | 0.12Ω                 | 20       | 250MHz           | 10.0GHz                         | Kit |
| LQW04AN5N1D00□ | 5.1nH ±0.5nH | 100MHz                    | 470mA         | 0.12Ω                 | 20       | 250MHz           | 10.0GHz                         |     |
| LQW04AN5N6C00□ | 5.6nH ±0.2nH | 100MHz                    | 470mA         | 0.12Ω                 | 20       | 250MHz           | 9.0GHz                          | Kit |
| LQW04AN5N6D00□ | 5.6nH ±0.5nH | 100MHz                    | 470mA         | 0.12Ω                 | 20       | 250MHz           | 9.0GHz                          |     |
| LQW04AN6N2C00□ | 6.2nH ±0.2nH | 100MHz                    | 390mA         | 0.19Ω                 | 20       | 250MHz           | 9.0GHz                          | Kit |
| LQW04AN6N2D00□ | 6.2nH ±0.5nH | 100MHz                    | 390mA         | 0.19Ω                 | 20       | 250MHz           | 9.0GHz                          |     |
| LQW04AN6N8C00□ | 6.8nH ±0.2nH | 100MHz                    | 440mA         | 0.14Ω                 | 20       | 250MHz           | 9.0GHz                          | Kit |
| LQW04AN6N8D00□ | 6.8nH ±0.5nH | 100MHz                    | 440mA         | 0.14Ω                 | 20       | 250MHz           | 9.0GHz                          |     |
| LQW04AN7N5C00□ | 7.5nH ±0.2nH | 100MHz                    | 440mA         | 0.14Ω                 | 20       | 250MHz           | 8.0GHz                          | Kit |
| LQW04AN7N5D00□ | 7.5nH ±0.5nH | 100MHz                    | 440mA         | 0.14Ω                 | 20       | 250MHz           | 8.0GHz                          |     |
| LQW04AN8N2C00□ | 8.2nH ±0.2nH | 100MHz                    | 350mA         | 0.23Ω                 | 20       | 250MHz           | 8.0GHz                          | Kit |
| LQW04AN8N2D00□ | 8.2nH ±0.5nH | 100MHz                    | 350mA         | 0.23Ω                 | 20       | 250MHz           | 8.0GHz                          |     |
| LQW04AN9N1C00□ | 9.1nH ±0.2nH | 100MHz                    | 400mA         | 0.16Ω                 | 20       | 250MHz           | 7.0GHz                          | Kit |
| LQW04AN9N1D00□ | 9.1nH ±0.5nH | 100MHz                    | 400mA         | 0.16Ω                 | 20       | 250MHz           | 7.0GHz                          |     |

Operating Temperature Range (Self-temperature rise is not included): -55°C~+125°C

For reflow soldering only.

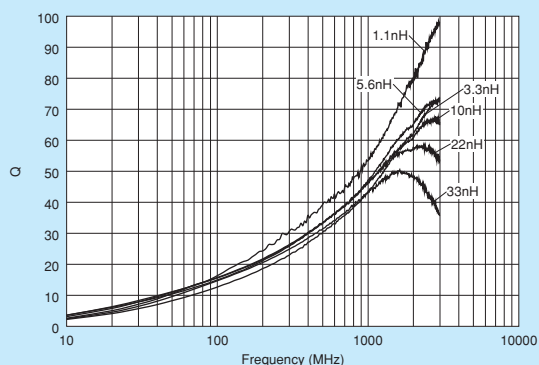
Continued on the following page.

⚠Note • Please read rating and ⚠CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.  
 • This catalog has only typical specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

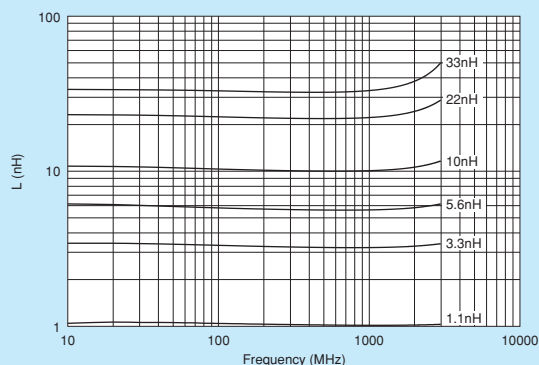
| Part Number    | Inductance     | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |     |
|----------------|----------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|-----|
| LQW04AN10NH00□ | 10nH $\pm 3\%$ | 100MHz                    | 330mA         | 0.26 $\Omega$         | 20       | 250MHz           | 7.0GHz                          | Kit |
| LQW04AN10NJ00□ | 10nH $\pm 5\%$ | 100MHz                    | 330mA         | 0.26 $\Omega$         | 20       | 250MHz           | 7.0GHz                          |     |
| LQW04AN11NH00□ | 11nH $\pm 3\%$ | 100MHz                    | 310mA         | 0.28 $\Omega$         | 15       | 250MHz           | 7.0GHz                          | Kit |
| LQW04AN11NJ00□ | 11nH $\pm 5\%$ | 100MHz                    | 310mA         | 0.28 $\Omega$         | 15       | 250MHz           | 7.0GHz                          |     |
| LQW04AN12NH00□ | 12nH $\pm 3\%$ | 100MHz                    | 310mA         | 0.28 $\Omega$         | 15       | 250MHz           | 6.0GHz                          | Kit |
| LQW04AN12NJ00□ | 12nH $\pm 5\%$ | 100MHz                    | 310mA         | 0.28 $\Omega$         | 15       | 250MHz           | 6.0GHz                          |     |
| LQW04AN13NH00□ | 13nH $\pm 3\%$ | 100MHz                    | 280mA         | 0.34 $\Omega$         | 15       | 250MHz           | 6.0GHz                          | Kit |
| LQW04AN13NJ00□ | 13nH $\pm 5\%$ | 100MHz                    | 280mA         | 0.34 $\Omega$         | 15       | 250MHz           | 6.0GHz                          |     |
| LQW04AN15NH00□ | 15nH $\pm 3\%$ | 100MHz                    | 240mA         | 0.48 $\Omega$         | 15       | 250MHz           | 5.5GHz                          | Kit |
| LQW04AN15NJ00□ | 15nH $\pm 5\%$ | 100MHz                    | 240mA         | 0.48 $\Omega$         | 15       | 250MHz           | 5.5GHz                          |     |
| LQW04AN16NH00□ | 16nH $\pm 3\%$ | 100MHz                    | 270mA         | 0.38 $\Omega$         | 15       | 250MHz           | 5.5GHz                          | Kit |
| LQW04AN16NJ00□ | 16nH $\pm 5\%$ | 100MHz                    | 270mA         | 0.38 $\Omega$         | 15       | 250MHz           | 5.5GHz                          |     |
| LQW04AN18NH00□ | 18nH $\pm 3\%$ | 100MHz                    | 220mA         | 0.54 $\Omega$         | 15       | 250MHz           | 5.0GHz                          | Kit |
| LQW04AN18NJ00□ | 18nH $\pm 5\%$ | 100MHz                    | 220mA         | 0.54 $\Omega$         | 15       | 250MHz           | 5.0GHz                          |     |
| LQW04AN19NH00□ | 19nH $\pm 3\%$ | 100MHz                    | 160mA         | 0.73 $\Omega$         | 15       | 250MHz           | 5.0GHz                          | Kit |
| LQW04AN19NJ00□ | 19nH $\pm 5\%$ | 100MHz                    | 160mA         | 0.73 $\Omega$         | 15       | 250MHz           | 5.0GHz                          |     |
| LQW04AN20NH00□ | 20nH $\pm 3\%$ | 100MHz                    | 210mA         | 0.56 $\Omega$         | 15       | 250MHz           | 5.0GHz                          | Kit |
| LQW04AN20NJ00□ | 20nH $\pm 5\%$ | 100MHz                    | 210mA         | 0.56 $\Omega$         | 15       | 250MHz           | 5.0GHz                          |     |
| LQW04AN22NH00□ | 22nH $\pm 3\%$ | 100MHz                    | 200mA         | 0.63 $\Omega$         | 15       | 250MHz           | 5.0GHz                          | Kit |
| LQW04AN22NJ00□ | 22nH $\pm 5\%$ | 100MHz                    | 200mA         | 0.63 $\Omega$         | 15       | 250MHz           | 5.0GHz                          |     |
| LQW04AN23NH00□ | 23nH $\pm 3\%$ | 100MHz                    | 160mA         | 0.95 $\Omega$         | 15       | 250MHz           | 4.0GHz                          | Kit |
| LQW04AN23NJ00□ | 23nH $\pm 5\%$ | 100MHz                    | 160mA         | 0.95 $\Omega$         | 15       | 250MHz           | 4.0GHz                          |     |
| LQW04AN24NH00□ | 24nH $\pm 3\%$ | 100MHz                    | 160mA         | 0.95 $\Omega$         | 15       | 250MHz           | 4.0GHz                          | Kit |
| LQW04AN24NJ00□ | 24nH $\pm 5\%$ | 100MHz                    | 160mA         | 0.95 $\Omega$         | 15       | 250MHz           | 4.0GHz                          |     |
| LQW04AN25NH00□ | 25nH $\pm 3\%$ | 100MHz                    | 160mA         | 0.95 $\Omega$         | 15       | 250MHz           | 4.0GHz                          | Kit |
| LQW04AN25NJ00□ | 25nH $\pm 5\%$ | 100MHz                    | 160mA         | 0.95 $\Omega$         | 15       | 250MHz           | 4.0GHz                          |     |
| LQW04AN27NH00□ | 27nH $\pm 3\%$ | 100MHz                    | 160mA         | 0.95 $\Omega$         | 15       | 250MHz           | 4.0GHz                          | Kit |
| LQW04AN27NJ00□ | 27nH $\pm 5\%$ | 100MHz                    | 160mA         | 0.95 $\Omega$         | 15       | 250MHz           | 4.0GHz                          |     |
| LQW04AN33NH00□ | 33nH $\pm 3\%$ | 100MHz                    | 140mA         | 1.11 $\Omega$         | 15       | 250MHz           | 4.0GHz                          | Kit |
| LQW04AN33NJ00□ | 33nH $\pm 5\%$ | 100MHz                    | 140mA         | 1.11 $\Omega$         | 15       | 250MHz           | 4.0GHz                          |     |

Operating Temperature Range (Self-temperature rise is not included): -55°C~+125°C  
For reflow soldering only.

■ Q-Frequency Characteristics (Typ.)



■ Inductance-Frequency Characteristics (Typ.)



Continued on the following page.

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O05E.pdf  
Nov.25,2013

## ■ Reference Data

4991A&amp;16197A

| Part Number | Inductance (nH) | Q (Typ.) |        |        |        |        |
|-------------|-----------------|----------|--------|--------|--------|--------|
|             | Nominal         | 800MHz   | 900MHz | 1.8GHz | 2.0GHz | 2.4GHz |
| LQW04AN1N1  | 1.1             | 61       | 65     | 79     | 85     | 92     |
| LQW04AN1N8  | 1.8             | 48       | 52     | 75     | 80     | 88     |
| LQW04AN2N7  | 2.7             | 46       | 50     | 70     | 75     | 85     |
| LQW04AN3N0  | 3.0             | 47       | 50     | 70     | 75     | 85     |
| LQW04AN3N3  | 3.3             | 40       | 43     | 62     | 64     | 69     |
| LQW04AN3N6  | 3.6             | 46       | 48     | 69     | 72     | 78     |
| LQW04AN3N9  | 3.9             | 46       | 48     | 69     | 72     | 79     |
| LQW04AN4N3  | 4.3             | 47       | 50     | 69     | 73     | 79     |
| LQW04AN4N7  | 4.7             | 43       | 45     | 63     | 67     | 72     |
| LQW04AN5N1  | 5.1             | 47       | 49     | 69     | 72     | 80     |
| LQW04AN5N6  | 5.6             | 47       | 49     | 69     | 72     | 79     |
| LQW04AN6N2  | 6.2             | 42       | 45     | 63     | 65     | 70     |
| LQW04AN6N8  | 6.8             | 45       | 48     | 66     | 68     | 74     |
| LQW04AN7N5  | 7.5             | 45       | 47     | 66     | 67     | 70     |
| LQW04AN8N2  | 8.2             | 43       | 45     | 61     | 63     | 67     |
| LQW04AN9N1  | 9.1             | 45       | 47     | 65     | 66     | 68     |
| LQW04AN10N  | 10              | 43       | 46     | 61     | 63     | 65     |
| LQW04AN11N  | 11              | 43       | 46     | 63     | 65     | 67     |
| LQW04AN12N  | 12              | 44       | 47     | 63     | 64     | 66     |
| LQW04AN13N  | 13              | 44       | 46     | 62     | 64     | 66     |
| LQW04AN15N  | 15              | 43       | 45     | 59     | 60     | 61     |
| LQW04AN16N  | 16              | 43       | 47     | 60     | 61     | 61     |
| LQW04AN18N  | 18              | 42       | 45     | 57     | 58     | 57     |
| LQW04AN20N  | 20              | 42       | 45     | 57     | 58     | 55     |
| LQW04AN22N  | 22              | 42       | 46     | 56     | 57     | 55     |
| LQW04AN27N  | 27              | 42       | 44     | 51     | 50     | 47     |
| LQW04AN33N  | 33              | 43       | 45     | 52     | 50     | 47     |

Inductors for Power Lines

Inductors for General Use

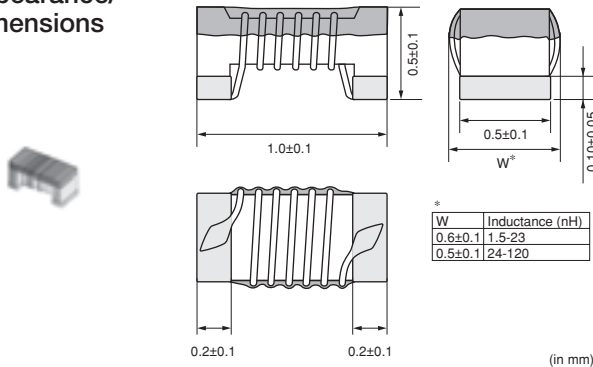
Wire Wound Type (Non-Magnetic Core)  
RF Inductors

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• This catalog has only typical specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

## Wire Wound Type (Non-Magnetic Core)

**LQW15AN\_00** Series 0402/1005 (inch/mm)

Size Code 0402 (1005) in inch (in mm), Wound Type

■ Appearance/  
Dimensions

## ■ Packaging

| Code | Packaging           | Minimum Quantity |
|------|---------------------|------------------|
| D    | ø180mm Paper Taping | 10000            |
| B    | Packing in Bulk     | 500              |



Refer to pages 227 to 230 for mounting information.

## ■ Rated Value (□: packaging code)

| Part Number    | Inductance   | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |     |
|----------------|--------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|-----|
| LQW15AN1N5B00□ | 1.5nH ±0.1nH | 100MHz                    | 1000mA        | 0.03Ω                 | 10       | 250MHz           | 18.0GHz                         | Kit |
| LQW15AN1N5C00□ | 1.5nH ±0.2nH | 100MHz                    | 1000mA        | 0.03Ω                 | 10       | 250MHz           | 18.0GHz                         |     |
| LQW15AN1N5D00□ | 1.5nH ±0.5nH | 100MHz                    | 1000mA        | 0.03Ω                 | 10       | 250MHz           | 18.0GHz                         |     |
| LQW15AN2N4B00□ | 2.4nH ±0.1nH | 100MHz                    | 850mA         | 0.05Ω                 | 20       | 250MHz           | 15.0GHz                         | Kit |
| LQW15AN2N4C00□ | 2.4nH ±0.2nH | 100MHz                    | 850mA         | 0.05Ω                 | 20       | 250MHz           | 15.0GHz                         |     |
| LQW15AN2N4D00□ | 2.4nH ±0.5nH | 100MHz                    | 850mA         | 0.05Ω                 | 20       | 250MHz           | 15.0GHz                         |     |
| LQW15AN2N5B00□ | 2.5nH ±0.1nH | 100MHz                    | 850mA         | 0.05Ω                 | 20       | 250MHz           | 15.0GHz                         | Kit |
| LQW15AN2N5C00□ | 2.5nH ±0.2nH | 100MHz                    | 850mA         | 0.05Ω                 | 20       | 250MHz           | 15.0GHz                         |     |
| LQW15AN2N5D00□ | 2.5nH ±0.5nH | 100MHz                    | 850mA         | 0.05Ω                 | 20       | 250MHz           | 15.0GHz                         |     |
| LQW15AN2N7B00□ | 2.7nH ±0.1nH | 100MHz                    | 850mA         | 0.05Ω                 | 20       | 250MHz           | 15.0GHz                         | Kit |
| LQW15AN2N7C00□ | 2.7nH ±0.2nH | 100MHz                    | 850mA         | 0.05Ω                 | 20       | 250MHz           | 15.0GHz                         |     |
| LQW15AN2N7D00□ | 2.7nH ±0.5nH | 100MHz                    | 850mA         | 0.05Ω                 | 20       | 250MHz           | 15.0GHz                         |     |
| LQW15AN2N9B00□ | 2.9nH ±0.1nH | 100MHz                    | 750mA         | 0.07Ω                 | 20       | 250MHz           | 15.0GHz                         | Kit |
| LQW15AN2N9C00□ | 2.9nH ±0.2nH | 100MHz                    | 750mA         | 0.07Ω                 | 20       | 250MHz           | 15.0GHz                         |     |
| LQW15AN2N9D00□ | 2.9nH ±0.5nH | 100MHz                    | 750mA         | 0.07Ω                 | 20       | 250MHz           | 15.0GHz                         |     |
| LQW15AN3N9B00□ | 3.9nH ±0.1nH | 100MHz                    | 750mA         | 0.07Ω                 | 25       | 250MHz           | 10.0GHz                         | Kit |
| LQW15AN3N9C00□ | 3.9nH ±0.2nH | 100MHz                    | 750mA         | 0.07Ω                 | 25       | 250MHz           | 10.0GHz                         |     |
| LQW15AN3N9D00□ | 3.9nH ±0.5nH | 100MHz                    | 750mA         | 0.07Ω                 | 25       | 250MHz           | 10.0GHz                         |     |
| LQW15AN4N1B00□ | 4.1nH ±0.1nH | 100MHz                    | 750mA         | 0.07Ω                 | 25       | 250MHz           | 10.0GHz                         | Kit |
| LQW15AN4N1C00□ | 4.1nH ±0.2nH | 100MHz                    | 750mA         | 0.07Ω                 | 25       | 250MHz           | 10.0GHz                         |     |
| LQW15AN4N1D00□ | 4.1nH ±0.5nH | 100MHz                    | 750mA         | 0.07Ω                 | 25       | 250MHz           | 10.0GHz                         |     |
| LQW15AN4N3B00□ | 4.3nH ±0.1nH | 100MHz                    | 750mA         | 0.07Ω                 | 25       | 250MHz           | 10.0GHz                         | Kit |
| LQW15AN4N3C00□ | 4.3nH ±0.2nH | 100MHz                    | 750mA         | 0.07Ω                 | 25       | 250MHz           | 10.0GHz                         |     |
| LQW15AN4N3D00□ | 4.3nH ±0.5nH | 100MHz                    | 750mA         | 0.07Ω                 | 25       | 250MHz           | 10.0GHz                         |     |
| LQW15AN4N7B00□ | 4.7nH ±0.1nH | 100MHz                    | 750mA         | 0.07Ω                 | 25       | 250MHz           | 8.0GHz                          | Kit |
| LQW15AN4N7C00□ | 4.7nH ±0.2nH | 100MHz                    | 750mA         | 0.07Ω                 | 25       | 250MHz           | 8.0GHz                          |     |
| LQW15AN4N7D00□ | 4.7nH ±0.5nH | 100MHz                    | 750mA         | 0.07Ω                 | 25       | 250MHz           | 8.0GHz                          |     |
| LQW15AN5N1B00□ | 5.1nH ±0.1nH | 100MHz                    | 600mA         | 0.12Ω                 | 25       | 250MHz           | 8.0GHz                          | Kit |
| LQW15AN5N1C00□ | 5.1nH ±0.2nH | 100MHz                    | 600mA         | 0.12Ω                 | 25       | 250MHz           | 8.0GHz                          |     |
| LQW15AN5N1D00□ | 5.1nH ±0.5nH | 100MHz                    | 600mA         | 0.12Ω                 | 25       | 250MHz           | 8.0GHz                          |     |
| LQW15AN5N8B00□ | 5.8nH ±0.1nH | 100MHz                    | 700mA         | 0.12Ω                 | 25       | 250MHz           | 8.0GHz                          | Kit |
| LQW15AN5N8C00□ | 5.8nH ±0.2nH | 100MHz                    | 700mA         | 0.12Ω                 | 25       | 250MHz           | 8.0GHz                          |     |

Operating Temperature Range (Self-temperature rise is not included): -55°C~+125°C  
 For reflow soldering only.

Continued on the following page.

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| Part Number    | Inductance   | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |     |
|----------------|--------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|-----|
| LQW15AN5N8D00□ | 5.8nH ±0.5nH | 100MHz                    | 700mA         | 0.12Ω                 | 25       | 250MHz           | 8.0GHz                          |     |
| LQW15AN6N2B00□ | 6.2nH ±0.1nH | 100MHz                    | 700mA         | 0.09Ω                 | 25       | 250MHz           | 8.0GHz                          | Kit |
| LQW15AN6N2C00□ | 6.2nH ±0.2nH | 100MHz                    | 700mA         | 0.09Ω                 | 25       | 250MHz           | 8.0GHz                          |     |
| LQW15AN6N2D00□ | 6.2nH ±0.5nH | 100MHz                    | 700mA         | 0.09Ω                 | 25       | 250MHz           | 8.0GHz                          |     |
| LQW15AN6N8G00□ | 6.8nH ±2%    | 100MHz                    | 700mA         | 0.09Ω                 | 25       | 250MHz           | 6.0GHz                          | Kit |
| LQW15AN6N8H00□ | 6.8nH ±3%    | 100MHz                    | 700mA         | 0.09Ω                 | 25       | 250MHz           | 6.0GHz                          |     |
| LQW15AN6N8J00□ | 6.8nH ±5%    | 100MHz                    | 700mA         | 0.09Ω                 | 25       | 250MHz           | 6.0GHz                          |     |
| LQW15AN7N3G00□ | 7.3nH ±2%    | 100MHz                    | 570mA         | 0.13Ω                 | 25       | 250MHz           | 6.0GHz                          | Kit |
| LQW15AN7N3H00□ | 7.3nH ±3%    | 100MHz                    | 570mA         | 0.13Ω                 | 25       | 250MHz           | 6.0GHz                          |     |
| LQW15AN7N3J00□ | 7.3nH ±5%    | 100MHz                    | 570mA         | 0.13Ω                 | 25       | 250MHz           | 6.0GHz                          |     |
| LQW15AN7N5G00□ | 7.5nH ±2%    | 100MHz                    | 570mA         | 0.13Ω                 | 25       | 250MHz           | 6.0GHz                          | Kit |
| LQW15AN7N5H00□ | 7.5nH ±3%    | 100MHz                    | 570mA         | 0.13Ω                 | 25       | 250MHz           | 6.0GHz                          |     |
| LQW15AN7N5J00□ | 7.5nH ±5%    | 100MHz                    | 570mA         | 0.13Ω                 | 25       | 250MHz           | 6.0GHz                          |     |
| LQW15AN8N2G00□ | 8.2nH ±2%    | 100MHz                    | 540mA         | 0.14Ω                 | 25       | 250MHz           | 5.5GHz                          | Kit |
| LQW15AN8N2H00□ | 8.2nH ±3%    | 100MHz                    | 540mA         | 0.14Ω                 | 25       | 250MHz           | 5.5GHz                          |     |
| LQW15AN8N2J00□ | 8.2nH ±5%    | 100MHz                    | 540mA         | 0.14Ω                 | 25       | 250MHz           | 5.5GHz                          |     |
| LQW15AN8N7G00□ | 8.7nH ±2%    | 100MHz                    | 540mA         | 0.14Ω                 | 25       | 250MHz           | 5.5GHz                          | Kit |
| LQW15AN8N7H00□ | 8.7nH ±3%    | 100MHz                    | 540mA         | 0.14Ω                 | 25       | 250MHz           | 5.5GHz                          |     |
| LQW15AN8N7J00□ | 8.7nH ±5%    | 100MHz                    | 540mA         | 0.14Ω                 | 25       | 250MHz           | 5.5GHz                          |     |
| LQW15AN9N1G00□ | 9.1nH ±2%    | 100MHz                    | 540mA         | 0.14Ω                 | 25       | 250MHz           | 5.5GHz                          | Kit |
| LQW15AN9N1H00□ | 9.1nH ±3%    | 100MHz                    | 540mA         | 0.14Ω                 | 25       | 250MHz           | 5.5GHz                          |     |
| LQW15AN9N1J00□ | 9.1nH ±5%    | 100MHz                    | 540mA         | 0.14Ω                 | 25       | 250MHz           | 5.5GHz                          |     |
| LQW15AN9N5G00□ | 9.5nH ±2%    | 100MHz                    | 540mA         | 0.14Ω                 | 25       | 250MHz           | 5.5GHz                          | Kit |
| LQW15AN9N5H00□ | 9.5nH ±3%    | 100MHz                    | 540mA         | 0.14Ω                 | 25       | 250MHz           | 5.5GHz                          |     |
| LQW15AN9N5J00□ | 9.5nH ±5%    | 100MHz                    | 540mA         | 0.14Ω                 | 25       | 250MHz           | 5.5GHz                          |     |
| LQW15AN10NG00□ | 10nH ±2%     | 100MHz                    | 500mA         | 0.17Ω                 | 25       | 250MHz           | 5.5GHz                          | Kit |
| LQW15AN10NH00□ | 10nH ±3%     | 100MHz                    | 500mA         | 0.17Ω                 | 25       | 250MHz           | 5.5GHz                          |     |
| LQW15AN10NJ00□ | 10nH ±5%     | 100MHz                    | 500mA         | 0.17Ω                 | 25       | 250MHz           | 5.5GHz                          |     |
| LQW15AN11NG00□ | 11nH ±2%     | 100MHz                    | 500mA         | 0.14Ω                 | 30       | 250MHz           | 5.5GHz                          | Kit |
| LQW15AN11NH00□ | 11nH ±3%     | 100MHz                    | 500mA         | 0.14Ω                 | 30       | 250MHz           | 5.5GHz                          |     |
| LQW15AN11NJ00□ | 11nH ±5%     | 100MHz                    | 500mA         | 0.14Ω                 | 30       | 250MHz           | 5.5GHz                          |     |
| LQW15AN12NG00□ | 12nH ±2%     | 100MHz                    | 500mA         | 0.14Ω                 | 30       | 250MHz           | 5.5GHz                          | Kit |
| LQW15AN12NH00□ | 12nH ±3%     | 100MHz                    | 500mA         | 0.14Ω                 | 30       | 250MHz           | 5.5GHz                          |     |
| LQW15AN12NJ00□ | 12nH ±5%     | 100MHz                    | 500mA         | 0.14Ω                 | 30       | 250MHz           | 5.5GHz                          |     |
| LQW15AN13NG00□ | 13nH ±2%     | 100MHz                    | 430mA         | 0.21Ω                 | 25       | 250MHz           | 5.0GHz                          | Kit |
| LQW15AN13NH00□ | 13nH ±3%     | 100MHz                    | 430mA         | 0.21Ω                 | 25       | 250MHz           | 5.0GHz                          |     |
| LQW15AN13NJ00□ | 13nH ±5%     | 100MHz                    | 430mA         | 0.21Ω                 | 25       | 250MHz           | 5.0GHz                          |     |
| LQW15AN15NG00□ | 15nH ±2%     | 100MHz                    | 460mA         | 0.16Ω                 | 30       | 250MHz           | 5.0GHz                          | Kit |
| LQW15AN15NH00□ | 15nH ±3%     | 100MHz                    | 460mA         | 0.16Ω                 | 30       | 250MHz           | 5.0GHz                          |     |
| LQW15AN15NJ00□ | 15nH ±5%     | 100MHz                    | 460mA         | 0.16Ω                 | 30       | 250MHz           | 5.0GHz                          |     |
| LQW15AN16NG00□ | 16nH ±2%     | 100MHz                    | 370mA         | 0.24Ω                 | 25       | 250MHz           | 4.5GHz                          | Kit |
| LQW15AN16NH00□ | 16nH ±3%     | 100MHz                    | 370mA         | 0.24Ω                 | 25       | 250MHz           | 4.5GHz                          |     |
| LQW15AN16NJ00□ | 16nH ±5%     | 100MHz                    | 370mA         | 0.24Ω                 | 25       | 250MHz           | 4.5GHz                          |     |
| LQW15AN18NG00□ | 18nH ±2%     | 100MHz                    | 370mA         | 0.27Ω                 | 25       | 250MHz           | 4.5GHz                          | Kit |
| LQW15AN18NH00□ | 18nH ±3%     | 100MHz                    | 370mA         | 0.27Ω                 | 25       | 250MHz           | 4.5GHz                          |     |
| LQW15AN18NJ00□ | 18nH ±5%     | 100MHz                    | 370mA         | 0.27Ω                 | 25       | 250MHz           | 4.5GHz                          |     |
| LQW15AN19NG00□ | 19nH ±2%     | 100MHz                    | 370mA         | 0.27Ω                 | 25       | 250MHz           | 4.5GHz                          | Kit |

Operating Temperature Range (Self-temperature rise is not included): -55°C~+125°C  
For reflow soldering only.

Continued on the following page. 

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| Part Number    | Inductance | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |     |
|----------------|------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|-----|
| LQW15AN19NH00□ | 19nH ±3%   | 100MHz                    | 370mA         | 0.27Ω                 | 25       | 250MHz           | 4.5GHz                          |     |
| LQW15AN19NJ00□ | 19nH ±5%   | 100MHz                    | 370mA         | 0.27Ω                 | 25       | 250MHz           | 4.5GHz                          |     |
| LQW15AN20NG00□ | 20nH ±2%   | 100MHz                    | 370mA         | 0.27Ω                 | 25       | 250MHz           | 4.0GHz                          | Kit |
| LQW15AN20NH00□ | 20nH ±3%   | 100MHz                    | 370mA         | 0.27Ω                 | 25       | 250MHz           | 4.0GHz                          |     |
| LQW15AN20NJ00□ | 20nH ±5%   | 100MHz                    | 370mA         | 0.27Ω                 | 25       | 250MHz           | 4.0GHz                          |     |
| LQW15AN22NG00□ | 22nH ±2%   | 100MHz                    | 310mA         | 0.30Ω                 | 25       | 250MHz           | 4.0GHz                          | Kit |
| LQW15AN22NH00□ | 22nH ±3%   | 100MHz                    | 310mA         | 0.30Ω                 | 25       | 250MHz           | 4.0GHz                          |     |
| LQW15AN22NJ00□ | 22nH ±5%   | 100MHz                    | 310mA         | 0.30Ω                 | 25       | 250MHz           | 4.0GHz                          |     |
| LQW15AN23NG00□ | 23nH ±2%   | 100MHz                    | 310mA         | 0.30Ω                 | 25       | 250MHz           | 3.8GHz                          | Kit |
| LQW15AN23NH00□ | 23nH ±3%   | 100MHz                    | 310mA         | 0.30Ω                 | 25       | 250MHz           | 3.8GHz                          |     |
| LQW15AN23NJ00□ | 23nH ±5%   | 100MHz                    | 310mA         | 0.30Ω                 | 25       | 250MHz           | 3.8GHz                          |     |
| LQW15AN24NG00□ | 24nH ±2%   | 100MHz                    | 280mA         | 0.52Ω                 | 25       | 250MHz           | 3.5GHz                          | Kit |
| LQW15AN24NH00□ | 24nH ±3%   | 100MHz                    | 280mA         | 0.52Ω                 | 25       | 250MHz           | 3.5GHz                          |     |
| LQW15AN24NJ00□ | 24nH ±5%   | 100MHz                    | 280mA         | 0.52Ω                 | 25       | 250MHz           | 3.5GHz                          |     |
| LQW15AN27NG00□ | 27nH ±2%   | 100MHz                    | 280mA         | 0.52Ω                 | 25       | 250MHz           | 3.5GHz                          | Kit |
| LQW15AN27NH00□ | 27nH ±3%   | 100MHz                    | 280mA         | 0.52Ω                 | 25       | 250MHz           | 3.5GHz                          |     |
| LQW15AN27NJ00□ | 27nH ±5%   | 100MHz                    | 280mA         | 0.52Ω                 | 25       | 250MHz           | 3.5GHz                          |     |
| LQW15AN30NG00□ | 30nH ±2%   | 100MHz                    | 270mA         | 0.58Ω                 | 25       | 250MHz           | 3.3GHz                          | Kit |
| LQW15AN30NH00□ | 30nH ±3%   | 100MHz                    | 270mA         | 0.58Ω                 | 25       | 250MHz           | 3.3GHz                          |     |
| LQW15AN30NJ00□ | 30nH ±5%   | 100MHz                    | 270mA         | 0.58Ω                 | 25       | 250MHz           | 3.3GHz                          |     |
| LQW15AN33NG00□ | 33nH ±2%   | 100MHz                    | 260mA         | 0.63Ω                 | 25       | 250MHz           | 3.2GHz                          | Kit |
| LQW15AN33NH00□ | 33nH ±3%   | 100MHz                    | 260mA         | 0.63Ω                 | 25       | 250MHz           | 3.2GHz                          |     |
| LQW15AN33NJ00□ | 33nH ±5%   | 100MHz                    | 260mA         | 0.63Ω                 | 25       | 250MHz           | 3.2GHz                          |     |
| LQW15AN36NG00□ | 36nH ±2%   | 100MHz                    | 260mA         | 0.63Ω                 | 25       | 250MHz           | 3.1GHz                          | Kit |
| LQW15AN36NH00□ | 36nH ±3%   | 100MHz                    | 260mA         | 0.63Ω                 | 25       | 250MHz           | 3.1GHz                          |     |
| LQW15AN36NJ00□ | 36nH ±5%   | 100MHz                    | 260mA         | 0.63Ω                 | 25       | 250MHz           | 3.1GHz                          |     |
| LQW15AN39NG00□ | 39nH ±2%   | 100MHz                    | 250mA         | 0.70Ω                 | 25       | 250MHz           | 3.0GHz                          | Kit |
| LQW15AN39NH00□ | 39nH ±3%   | 100MHz                    | 250mA         | 0.70Ω                 | 25       | 250MHz           | 3.0GHz                          |     |
| LQW15AN39NJ00□ | 39nH ±5%   | 100MHz                    | 250mA         | 0.70Ω                 | 25       | 250MHz           | 3.0GHz                          |     |
| LQW15AN40NG00□ | 40nH ±2%   | 100MHz                    | 250mA         | 0.70Ω                 | 25       | 250MHz           | 3.0GHz                          | Kit |
| LQW15AN40NH00□ | 40nH ±3%   | 100MHz                    | 250mA         | 0.70Ω                 | 25       | 250MHz           | 3.0GHz                          |     |
| LQW15AN40NJ00□ | 40nH ±5%   | 100MHz                    | 250mA         | 0.70Ω                 | 25       | 250MHz           | 3.0GHz                          |     |
| LQW15AN43NG00□ | 43nH ±2%   | 100MHz                    | 250mA         | 0.70Ω                 | 25       | 250MHz           | 3.0GHz                          | Kit |
| LQW15AN43NH00□ | 43nH ±3%   | 100MHz                    | 250mA         | 0.70Ω                 | 25       | 250MHz           | 3.0GHz                          |     |
| LQW15AN43NJ00□ | 43nH ±5%   | 100MHz                    | 250mA         | 0.70Ω                 | 25       | 250MHz           | 3.0GHz                          |     |
| LQW15AN47NG00□ | 47nH ±2%   | 100MHz                    | 210mA         | 1.08Ω                 | 25       | 200MHz           | 2.9GHz                          | Kit |
| LQW15AN47NH00□ | 47nH ±3%   | 100MHz                    | 210mA         | 1.08Ω                 | 25       | 200MHz           | 2.9GHz                          |     |
| LQW15AN47NJ00□ | 47nH ±5%   | 100MHz                    | 210mA         | 1.08Ω                 | 25       | 200MHz           | 2.9GHz                          |     |
| LQW15AN51NG00□ | 51nH ±2%   | 100MHz                    | 210mA         | 1.08Ω                 | 25       | 200MHz           | 2.85GHz                         | Kit |
| LQW15AN51NH00□ | 51nH ±3%   | 100MHz                    | 210mA         | 1.08Ω                 | 25       | 200MHz           | 2.85GHz                         |     |
| LQW15AN51NJ00□ | 51nH ±5%   | 100MHz                    | 210mA         | 1.08Ω                 | 25       | 200MHz           | 2.85GHz                         |     |
| LQW15AN56NG00□ | 56nH ±2%   | 100MHz                    | 200mA         | 1.17Ω                 | 25       | 200MHz           | 2.8GHz                          | Kit |
| LQW15AN56NH00□ | 56nH ±3%   | 100MHz                    | 200mA         | 1.17Ω                 | 25       | 200MHz           | 2.8GHz                          |     |
| LQW15AN56NJ00□ | 56nH ±5%   | 100MHz                    | 200mA         | 1.17Ω                 | 25       | 200MHz           | 2.8GHz                          |     |
| LQW15AN62NG00□ | 62nH ±2%   | 100MHz                    | 145mA         | 1.82Ω                 | 20       | 200MHz           | 2.6GHz                          | Kit |
| LQW15AN62NH00□ | 62nH ±3%   | 100MHz                    | 145mA         | 1.82Ω                 | 20       | 200MHz           | 2.6GHz                          |     |
| LQW15AN62NJ00□ | 62nH ±5%   | 100MHz                    | 145mA         | 1.82Ω                 | 20       | 200MHz           | 2.6GHz                          |     |

Operating Temperature Range (Self-temperature rise is not included): -55°C~+125°C  
For reflow soldering only.

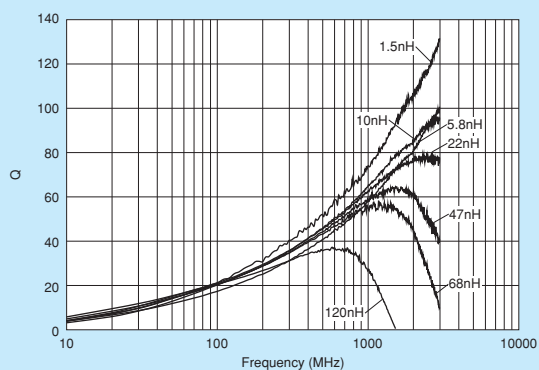
Continued on the following page. 

△Note • Please read rating and △CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.  
• This catalog has only typical specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

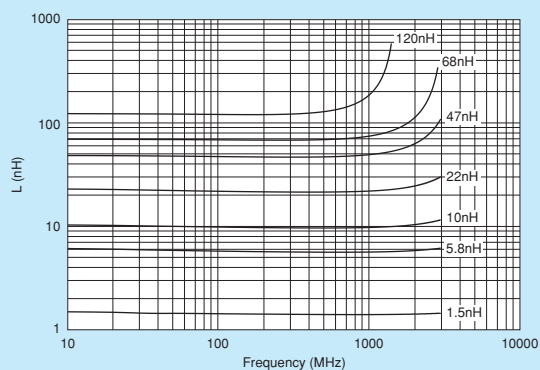
| Part Number    | Inductance      | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |     |
|----------------|-----------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|-----|
| LQW15AN68NG00□ | 68nH $\pm 2\%$  | 100MHz                    | 140mA         | 1.96 $\Omega$         | 20       | 200MHz           | 2.5GHz                          | Kit |
| LQW15AN68NJ00□ | 68nH $\pm 5\%$  | 100MHz                    | 140mA         | 1.96 $\Omega$         | 20       | 200MHz           | 2.5GHz                          |     |
| LQW15AN72NG00□ | 72nH $\pm 2\%$  | 100MHz                    | 135mA         | 2.10 $\Omega$         | 20       | 150MHz           | 2.5GHz                          | Kit |
| LQW15AN72NJ00□ | 72nH $\pm 5\%$  | 100MHz                    | 135mA         | 2.10 $\Omega$         | 20       | 150MHz           | 2.5GHz                          |     |
| LQW15AN75NG00□ | 75nH $\pm 2\%$  | 100MHz                    | 135mA         | 2.10 $\Omega$         | 20       | 150MHz           | 2.4GHz                          | Kit |
| LQW15AN75NJ00□ | 75nH $\pm 5\%$  | 100MHz                    | 135mA         | 2.10 $\Omega$         | 20       | 150MHz           | 2.4GHz                          |     |
| LQW15AN82NG00□ | 82nH $\pm 2\%$  | 100MHz                    | 130mA         | 2.24 $\Omega$         | 20       | 150MHz           | 2.3GHz                          | Kit |
| LQW15AN82NJ00□ | 82nH $\pm 5\%$  | 100MHz                    | 130mA         | 2.24 $\Omega$         | 20       | 150MHz           | 2.3GHz                          |     |
| LQW15AN91NG00□ | 91nH $\pm 2\%$  | 100MHz                    | 125mA         | 2.38 $\Omega$         | 20       | 150MHz           | 2.1GHz                          | Kit |
| LQW15AN91NJ00□ | 91nH $\pm 5\%$  | 100MHz                    | 125mA         | 2.38 $\Omega$         | 20       | 150MHz           | 2.1GHz                          |     |
| LQW15ANR10J00□ | 100nH $\pm 5\%$ | 100MHz                    | 120mA         | 2.52 $\Omega$         | 20       | 150MHz           | 1.5GHz                          | Kit |
| LQW15ANR12J00□ | 120nH $\pm 5\%$ | 100MHz                    | 110mA         | 2.66 $\Omega$         | 20       | 150MHz           | 1.0GHz                          | Kit |

Operating Temperature Range (Self-temperature rise is not included): -55°C~+125°C  
For reflow soldering only.

■ Q-Frequency Characteristics (Typ.)



■ Inductance-Frequency Characteristics (Typ.)



Continued on the following page.

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## ■ Reference Data

## LQW15AN\_00

4991A&amp;16197A

| Part Number | Inductance (nH) | Q (Typ.) |        |        |        |        |
|-------------|-----------------|----------|--------|--------|--------|--------|
|             | Nominal         | 800MHz   | 900MHz | 1.8GHz | 2.0GHz | 2.4GHz |
| LQW15AN1N5  | 1.5             | 55       | 60     | 90     | 100    | 115    |
| LQW15AN2N4  | 2.4             | 65       | 67     | 98     | 108    | 120    |
| LQW15AN2N5  | 2.5             | 65       | 67     | 90     | 100    | 110    |
| LQW15AN2N7  | 2.7             | 67       | 73     | 100    | 105    | 120    |
| LQW15AN2N9  | 2.9             | 53       | 58     | 80     | 85     | 92     |
| LQW15AN3N9  | 3.9             | 58       | 61     | 88     | 92     | 100    |
| LQW15AN4N1  | 4.1             | 58       | 61     | 88     | 92     | 100    |
| LQW15AN4N3  | 4.3             | 58       | 61     | 88     | 92     | 100    |
| LQW15AN4N7  | 4.7             | 65       | 67     | 88     | 92     | 95     |
| LQW15AN5N1  | 5.1             | 60       | 65     | 85     | 90     | 95     |
| LQW15AN5N8  | 5.8             | 63       | 67     | 88     | 92     | 105    |
| LQW15AN6N2  | 6.2             | 63       | 65     | 90     | 95     | 105    |
| LQW15AN6N8  | 6.8             | 70       | 72     | 96     | 100    | 103    |
| LQW15AN7N3  | 7.3             | 58       | 63     | 88     | 90     | 92     |
| LQW15AN7N5  | 7.5             | 58       | 63     | 88     | 90     | 92     |
| LQW15AN8N2  | 8.2             | 62       | 67     | 90     | 95     | 102    |
| LQW15AN8N7  | 8.7             | 60       | 62     | 85     | 90     | 92     |
| LQW15AN9N1  | 9.1             | 62       | 68     | 90     | 92     | 95     |
| LQW15AN9N5  | 9.5             | 62       | 68     | 90     | 92     | 95     |
| LQW15AN10N  | 10              | 60       | 65     | 82     | 85     | 84     |
| LQW15AN11N  | 11              | 65       | 70     | 105    | 110    | 120    |
| LQW15AN12N  | 12              | 60       | 62     | 85     | 90     | 91     |
| LQW15AN13N  | 13              | 60       | 62     | 72     | 71     | 67     |
| LQW15AN15N  | 15              | 60       | 65     | 85     | 88     | 90     |
| LQW15AN16N  | 16              | 60       | 63     | 90     | 100    | 110    |
| LQW15AN18N  | 18              | 63       | 65     | 88     | 87     | 85     |
| LQW15AN19N  | 19              | 57       | 62     | 80     | 82     | 83     |
| LQW15AN20N  | 20              | 57       | 62     | 80     | 82     | 83     |
| LQW15AN22N  | 22              | 55       | 58     | 75     | 78     | -      |
| LQW15AN23N  | 23              | 55       | 58     | 75     | 78     | -      |
| LQW15AN24N  | 24              | 50       | 50     | 42     | -      | -      |
| LQW15AN27N  | 27              | 55       | 56     | 58     | -      | -      |
| LQW15AN30N  | 30              | 55       | 58     | 68     | -      | -      |
| LQW15AN33N  | 33              | 55       | 56     | 53     | -      | -      |
| LQW15AN36N  | 36              | 52       | 52     | 42     | -      | -      |
| LQW15AN39N  | 39              | 55       | 56     | -      | -      | -      |
| LQW15AN40N  | 40              | 55       | 56     | -      | -      | -      |
| LQW15AN43N  | 43              | 55       | 56     | -      | -      | -      |
| LQW15AN47N  | 47              | 52       | 54     | -      | -      | -      |
| LQW15AN51N  | 51              | 52       | 54     | -      | -      | -      |
| LQW15AN56N  | 56              | 53       | 55     | -      | -      | -      |
| LQW15AN62N  | 62              | 51       | 52     | -      | -      | -      |
| LQW15AN68N  | 68              | 49       | 52     | -      | -      | -      |
| LQW15AN72N  | 72              | 49       | 52     | -      | -      | -      |
| LQW15AN75N  | 75              | 49       | 52     | -      | -      | -      |
| LQW15AN82N  | 82              | 49       | 50     | -      | -      | -      |
| LQW15AN91N  | 91              | 52       | 53     | -      | -      | -      |
| LQW15ANR10  | 100             | 43       | 43     | -      | -      | -      |
| LQW15ANR12  | 120             | 30       | 23     | -      | -      | -      |

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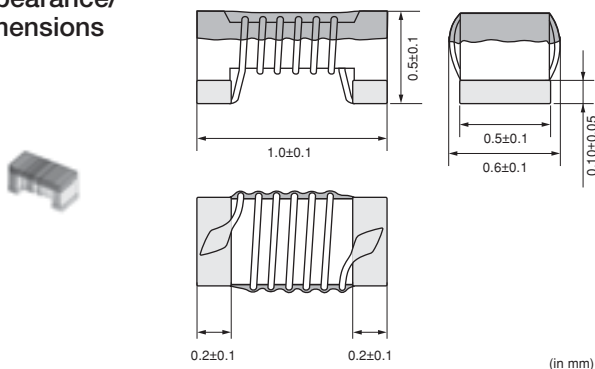
## Wire Wound Type (Non-Magnetic Core)

# LQW15AN\_10

Series 0402/1005 (inch/mm)

Size Code 0402 (1005) in inch (in mm), High Q, Low DC Resistance Type

## ■ Appearance/Dimensions



## ■ Packaging

| Code | Packaging           | Minimum Quantity |
|------|---------------------|------------------|
| D    | ø180mm Paper Taping | 10000            |
| B    | Packing in Bulk     | 500              |



Refer to pages 227 to 230 for mounting information.

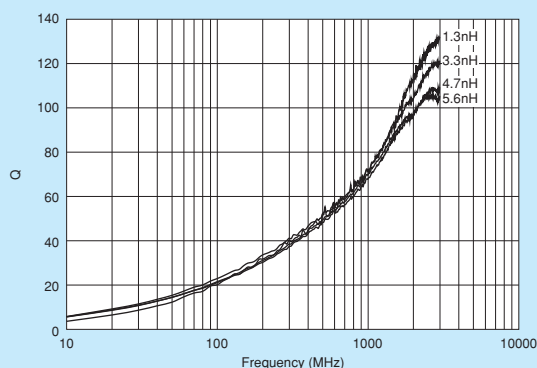
## ■ Rated Value (□: packaging code)

| Part Number    | Inductance   | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |     |
|----------------|--------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|-----|
| LQW15AN1N3C10□ | 1.3nH ±0.2nH | 100MHz                    | 1200mA        | 0.017Ω                | 20       | 250MHz           | 16.0GHz                         | Kit |
| LQW15AN1N3D10□ | 1.3nH ±0.5nH | 100MHz                    | 1200mA        | 0.017Ω                | 20       | 250MHz           | 16.0GHz                         |     |
| LQW15AN2N2C10□ | 2.2nH ±0.2nH | 100MHz                    | 1000mA        | 0.027Ω                | 25       | 250MHz           | 14.0GHz                         | Kit |
| LQW15AN2N2D10□ | 2.2nH ±0.5nH | 100MHz                    | 1000mA        | 0.027Ω                | 25       | 250MHz           | 14.0GHz                         |     |
| LQW15AN2N4D10□ | 2.4nH ±0.5nH | 100MHz                    | 1000mA        | 0.027Ω                | 25       | 250MHz           | 14.0GHz                         | Kit |
| LQW15AN3N3D10□ | 3.3nH ±0.5nH | 100MHz                    | 900mA         | 0.040Ω                | 30       | 250MHz           | 12.0GHz                         | Kit |
| LQW15AN3N4C10□ | 3.4nH ±0.2nH | 100MHz                    | 900mA         | 0.040Ω                | 30       | 250MHz           | 12.0GHz                         | Kit |
| LQW15AN3N4D10□ | 3.4nH ±0.5nH | 100MHz                    | 900mA         | 0.040Ω                | 30       | 250MHz           | 12.0GHz                         |     |
| LQW15AN3N6C10□ | 3.6nH ±0.2nH | 100MHz                    | 900mA         | 0.040Ω                | 30       | 250MHz           | 9.5GHz                          | Kit |
| LQW15AN3N6D10□ | 3.6nH ±0.5nH | 100MHz                    | 900mA         | 0.040Ω                | 30       | 250MHz           | 9.5GHz                          |     |
| LQW15AN3N9D10□ | 3.9nH ±0.5nH | 100MHz                    | 900mA         | 0.040Ω                | 30       | 250MHz           | 7.0GHz                          | Kit |
| LQW15AN4N7D10□ | 4.7nH ±0.5nH | 100MHz                    | 800mA         | 0.051Ω                | 30       | 250MHz           | 8.0GHz                          | Kit |
| LQW15AN5N1C10□ | 5.1nH ±0.2nH | 100MHz                    | 800mA         | 0.051Ω                | 30       | 250MHz           | 8.0GHz                          | Kit |
| LQW15AN5N1D10□ | 5.1nH ±0.5nH | 100MHz                    | 800mA         | 0.051Ω                | 30       | 250MHz           | 8.0GHz                          |     |
| LQW15AN5N6C10□ | 5.6nH ±0.2nH | 100MHz                    | 800mA         | 0.051Ω                | 30       | 250MHz           | 8.0GHz                          | Kit |
| LQW15AN5N6D10□ | 5.6nH ±0.5nH | 100MHz                    | 800mA         | 0.051Ω                | 30       | 250MHz           | 8.0GHz                          |     |

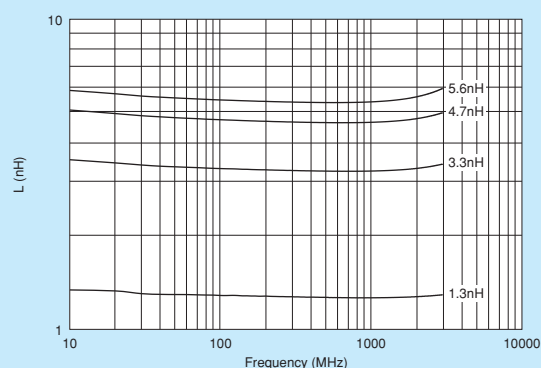
Operating Temperature Range (Self-temperature rise is not included): -55°C~+125°C

For reflow soldering only.

## ■ Q-Frequency Characteristics (Typ.)



## ■ Inductance-Frequency Characteristics (Typ.)



Continued on the following page.

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# ■ Reference Data

## LQW15AN\_10

4991A&amp;16197A

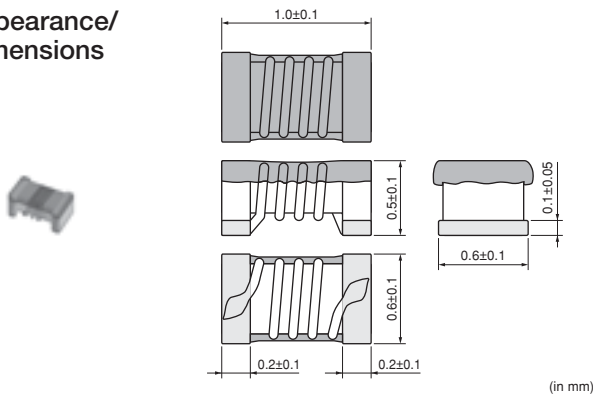
| Part Number | Inductance (nH) | Q (Typ.) |        |        |        |        |
|-------------|-----------------|----------|--------|--------|--------|--------|
|             | Nominal         | 800MHz   | 900MHz | 1.8GHz | 2.0GHz | 2.4GHz |
| LQW15AN1N3  | 1.3             | 90       | 95     | 145    | 160    | 180    |
| LQW15AN2N2  | 2.2             | 85       | 90     | 130    | 140    | 160    |
| LQW15AN2N4  | 2.4             | 80       | 85     | 130    | 140    | 160    |
| LQW15AN3N3  | 3.3             | 80       | 85     | 120    | 128    | 140    |
| LQW15AN3N4  | 3.4             | 80       | 85     | 120    | 128    | 140    |
| LQW15AN3N6  | 3.6             | 73       | 75     | 110    | 115    | 130    |
| LQW15AN3N9  | 3.9             | 75       | 80     | 110    | 115    | 120    |
| LQW15AN4N7  | 4.7             | 75       | 80     | 113    | 120    | 132    |
| LQW15AN5N1  | 5.1             | 75       | 80     | 110    | 115    | 128    |
| LQW15AN5N6  | 5.6             | 70       | 75     | 100    | 105    | 110    |

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## Wire Wound Type (Non-Magnetic Core)

**LQW15AN\_80** Series 0402/1005 (inch/mm)

Size Code 0402 (1005) in inch (in mm), Wound Type

■ Appearance/  
Dimensions

## ■ Packaging

| Code | Packaging           | Minimum Quantity |
|------|---------------------|------------------|
| D    | ø180mm Paper Taping | 10000            |
| B    | Packing in Bulk     | 500              |



Refer to pages 227 to 230 for mounting information.

## ■ Rated Value (□: packaging code)

| Part Number    | Inductance         | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |     |
|----------------|--------------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|-----|
| LQW15AN1N3C80□ | 1.3nH $\pm 0.2$ nH | 100MHz                    | 3150mA        | 0.012Ω                | 20       | 250MHz           | 18.0GHz                         | Kit |
| LQW15AN1N3D80□ | 1.3nH $\pm 0.5$ nH | 100MHz                    | 3150mA        | 0.012Ω                | 20       | 250MHz           | 18.0GHz                         |     |
| LQW15AN1N5C80□ | 1.5nH $\pm 0.2$ nH | 100MHz                    | 2100mA        | 0.028Ω                | 20       | 250MHz           | 18.0GHz                         | New |
| LQW15AN1N5D80□ | 1.5nH $\pm 0.5$ nH | 100MHz                    | 2100mA        | 0.028Ω                | 20       | 250MHz           | 18.0GHz                         | New |
| LQW15AN1N6C80□ | 1.6nH $\pm 0.2$ nH | 100MHz                    | 1450mA        | 0.045Ω                | 20       | 250MHz           | 18.0GHz                         | New |
| LQW15AN1N6D80□ | 1.6nH $\pm 0.5$ nH | 100MHz                    | 1450mA        | 0.045Ω                | 20       | 250MHz           | 18.0GHz                         | New |
| LQW15AN1N7C80□ | 1.7nH $\pm 0.2$ nH | 100MHz                    | 1150mA        | 0.065Ω                | 20       | 250MHz           | 18.0GHz                         | New |
| LQW15AN1N7D80□ | 1.7nH $\pm 0.5$ nH | 100MHz                    | 1150mA        | 0.065Ω                | 20       | 250MHz           | 18.0GHz                         | New |
| LQW15AN2N2B80□ | 2.2nH $\pm 0.1$ nH | 100MHz                    | 2530mA        | 0.022Ω                | 30       | 250MHz           | 15.5GHz                         | New |
| LQW15AN2N2C80□ | 2.2nH $\pm 0.2$ nH | 100MHz                    | 2530mA        | 0.022Ω                | 30       | 250MHz           | 15.5GHz                         | New |
| LQW15AN2N2D80□ | 2.2nH $\pm 0.5$ nH | 100MHz                    | 2530mA        | 0.022Ω                | 30       | 250MHz           | 15.5GHz                         | New |
| LQW15AN2N3B80□ | 2.3nH $\pm 0.1$ nH | 100MHz                    | 2530mA        | 0.022Ω                | 30       | 250MHz           | 15.5GHz                         | Kit |
| LQW15AN2N3C80□ | 2.3nH $\pm 0.2$ nH | 100MHz                    | 2530mA        | 0.022Ω                | 30       | 250MHz           | 15.5GHz                         |     |
| LQW15AN2N3D80□ | 2.3nH $\pm 0.5$ nH | 100MHz                    | 2530mA        | 0.022Ω                | 30       | 250MHz           | 15.5GHz                         |     |
| LQW15AN2N4B80□ | 2.4nH $\pm 0.1$ nH | 100MHz                    | 2530mA        | 0.022Ω                | 30       | 250MHz           | 15.5GHz                         | Kit |
| LQW15AN2N4C80□ | 2.4nH $\pm 0.2$ nH | 100MHz                    | 2530mA        | 0.022Ω                | 30       | 250MHz           | 15.5GHz                         |     |
| LQW15AN2N4D80□ | 2.4nH $\pm 0.5$ nH | 100MHz                    | 2530mA        | 0.022Ω                | 30       | 250MHz           | 15.5GHz                         |     |
| LQW15AN2N5B80□ | 2.5nH $\pm 0.1$ nH | 100MHz                    | 2100mA        | 0.030Ω                | 30       | 250MHz           | 15.5GHz                         | New |
| LQW15AN2N5C80□ | 2.5nH $\pm 0.2$ nH | 100MHz                    | 2100mA        | 0.030Ω                | 30       | 250MHz           | 15.5GHz                         | New |
| LQW15AN2N5D80□ | 2.5nH $\pm 0.5$ nH | 100MHz                    | 2100mA        | 0.030Ω                | 30       | 250MHz           | 15.5GHz                         | New |
| LQW15AN2N6B80□ | 2.6nH $\pm 0.1$ nH | 100MHz                    | 1950mA        | 0.035Ω                | 30       | 250MHz           | 14.5GHz                         | New |
| LQW15AN2N6C80□ | 2.6nH $\pm 0.2$ nH | 100MHz                    | 1950mA        | 0.035Ω                | 30       | 250MHz           | 14.5GHz                         | New |
| LQW15AN2N6D80□ | 2.6nH $\pm 0.5$ nH | 100MHz                    | 1950mA        | 0.035Ω                | 30       | 250MHz           | 14.5GHz                         | New |
| LQW15AN2N7B80□ | 2.7nH $\pm 0.1$ nH | 100MHz                    | 1500mA        | 0.047Ω                | 28       | 250MHz           | 14.0GHz                         | New |
| LQW15AN2N7C80□ | 2.7nH $\pm 0.2$ nH | 100MHz                    | 1500mA        | 0.047Ω                | 28       | 250MHz           | 14.0GHz                         | New |
| LQW15AN2N7D80□ | 2.7nH $\pm 0.5$ nH | 100MHz                    | 1500mA        | 0.047Ω                | 28       | 250MHz           | 14.0GHz                         | New |
| LQW15AN2N8B80□ | 2.8nH $\pm 0.1$ nH | 100MHz                    | 1500mA        | 0.047Ω                | 27       | 250MHz           | 13.5GHz                         | New |
| LQW15AN2N8C80□ | 2.8nH $\pm 0.2$ nH | 100MHz                    | 1500mA        | 0.047Ω                | 27       | 250MHz           | 13.5GHz                         | New |
| LQW15AN2N8D80□ | 2.8nH $\pm 0.5$ nH | 100MHz                    | 1500mA        | 0.047Ω                | 27       | 250MHz           | 13.5GHz                         | New |
| LQW15AN2N9B80□ | 2.9nH $\pm 0.1$ nH | 100MHz                    | 1500mA        | 0.047Ω                | 25       | 250MHz           | 12.5GHz                         | New |
| LQW15AN2N9C80□ | 2.9nH $\pm 0.2$ nH | 100MHz                    | 1500mA        | 0.047Ω                | 25       | 250MHz           | 12.5GHz                         | New |
| LQW15AN2N9D80□ | 2.9nH $\pm 0.5$ nH | 100MHz                    | 1500mA        | 0.047Ω                | 25       | 250MHz           | 12.5GHz                         | New |
| LQW15AN3N0B80□ | 3nH $\pm 0.1$ nH   | 100MHz                    | 1350mA        | 0.063Ω                | 20       | 250MHz           | 12.5GHz                         | New |

Operating Temperature Range (Self-temperature rise is not included): -55°C~+125°C  
For reflow soldering only.

Continued on the following page.

⚠Note • Please read rating and ⚠CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.  
• This catalog has only typical specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

| Part Number    | Inductance   | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |     |
|----------------|--------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|-----|
| LQW15AN3N0C80□ | 3nH ±0.2nH   | 100MHz                    | 1350mA        | 0.063 Ω               | 20       | 250MHz           | 12.5GHz                         | New |
| LQW15AN3N0D80□ | 3nH ±0.5nH   | 100MHz                    | 1350mA        | 0.063 Ω               | 20       | 250MHz           | 12.5GHz                         | New |
| LQW15AN3N3B80□ | 3.3nH ±0.1nH | 100MHz                    | 2000mA        | 0.030 Ω               | 30       | 250MHz           | 14.0GHz                         | New |
| LQW15AN3N3C80□ | 3.3nH ±0.2nH | 100MHz                    | 2000mA        | 0.030 Ω               | 30       | 250MHz           | 14.0GHz                         | New |
| LQW15AN3N3D80□ | 3.3nH ±0.5nH | 100MHz                    | 2000mA        | 0.030 Ω               | 30       | 250MHz           | 14.0GHz                         | New |
| LQW15AN3N4B80□ | 3.4nH ±0.1nH | 100MHz                    | 1950mA        | 0.030 Ω               | 30       | 250MHz           | 10.0GHz                         | Kit |
| LQW15AN3N4C80□ | 3.4nH ±0.2nH | 100MHz                    | 1950mA        | 0.030 Ω               | 30       | 250MHz           | 10.0GHz                         |     |
| LQW15AN3N4D80□ | 3.4nH ±0.5nH | 100MHz                    | 1950mA        | 0.030 Ω               | 30       | 250MHz           | 10.0GHz                         |     |
| LQW15AN3N5B80□ | 3.5nH ±0.1nH | 100MHz                    | 1950mA        | 0.030 Ω               | 30       | 250MHz           | 10.0GHz                         | New |
| LQW15AN3N5C80□ | 3.5nH ±0.2nH | 100MHz                    | 1950mA        | 0.030 Ω               | 30       | 250MHz           | 10.0GHz                         | New |
| LQW15AN3N5D80□ | 3.5nH ±0.5nH | 100MHz                    | 1950mA        | 0.030 Ω               | 30       | 250MHz           | 10.0GHz                         | New |
| LQW15AN3N6B80□ | 3.6nH ±0.1nH | 100MHz                    | 1950mA        | 0.030 Ω               | 30       | 250MHz           | 10.0GHz                         | Kit |
| LQW15AN3N6C80□ | 3.6nH ±0.2nH | 100MHz                    | 1950mA        | 0.030 Ω               | 30       | 250MHz           | 10.0GHz                         |     |
| LQW15AN3N6D80□ | 3.6nH ±0.5nH | 100MHz                    | 1950mA        | 0.030 Ω               | 30       | 250MHz           | 10.0GHz                         |     |
| LQW15AN3N7B80□ | 3.7nH ±0.1nH | 100MHz                    | 1950mA        | 0.030 Ω               | 35       | 250MHz           | 10.0GHz                         | New |
| LQW15AN3N7C80□ | 3.7nH ±0.2nH | 100MHz                    | 1950mA        | 0.030 Ω               | 35       | 250MHz           | 10.0GHz                         | New |
| LQW15AN3N7D80□ | 3.7nH ±0.5nH | 100MHz                    | 1950mA        | 0.030 Ω               | 35       | 250MHz           | 10.0GHz                         | New |
| LQW15AN3N8B80□ | 3.8nH ±0.1nH | 100MHz                    | 1950mA        | 0.030 Ω               | 35       | 250MHz           | 10.0GHz                         | Kit |
| LQW15AN3N8C80□ | 3.8nH ±0.2nH | 100MHz                    | 1950mA        | 0.030 Ω               | 35       | 250MHz           | 10.0GHz                         |     |
| LQW15AN3N8D80□ | 3.8nH ±0.5nH | 100MHz                    | 1950mA        | 0.030 Ω               | 35       | 250MHz           | 10.0GHz                         |     |
| LQW15AN3N9B80□ | 3.9nH ±0.1nH | 100MHz                    | 1950mA        | 0.030 Ω               | 35       | 250MHz           | 10.0GHz                         | Kit |
| LQW15AN3N9C80□ | 3.9nH ±0.2nH | 100MHz                    | 1950mA        | 0.030 Ω               | 35       | 250MHz           | 10.0GHz                         |     |
| LQW15AN3N9D80□ | 3.9nH ±0.5nH | 100MHz                    | 1950mA        | 0.030 Ω               | 35       | 250MHz           | 10.0GHz                         |     |
| LQW15AN4N0B80□ | 4.0nH ±0.1nH | 100MHz                    | 1950mA        | 0.030 Ω               | 30       | 250MHz           | 10.0GHz                         | Kit |
| LQW15AN4N0C80□ | 4.0nH ±0.2nH | 100MHz                    | 1950mA        | 0.030 Ω               | 30       | 250MHz           | 10.0GHz                         |     |
| LQW15AN4N0D80□ | 4.0nH ±0.5nH | 100MHz                    | 1950mA        | 0.030 Ω               | 30       | 250MHz           | 10.0GHz                         |     |
| LQW15AN4N1B80□ | 4.1nH ±0.1nH | 100MHz                    | 1800mA        | 0.044 Ω               | 30       | 250MHz           | 9.6GHz                          | New |
| LQW15AN4N1C80□ | 4.1nH ±0.2nH | 100MHz                    | 1800mA        | 0.044 Ω               | 30       | 250MHz           | 9.6GHz                          | New |
| LQW15AN4N1D80□ | 4.1nH ±0.5nH | 100MHz                    | 1800mA        | 0.044 Ω               | 30       | 250MHz           | 9.6GHz                          | New |
| LQW15AN4N2B80□ | 4.2nH ±0.1nH | 100MHz                    | 1800mA        | 0.044 Ω               | 30       | 250MHz           | 9.6GHz                          | New |
| LQW15AN4N2C80□ | 4.2nH ±0.2nH | 100MHz                    | 1800mA        | 0.044 Ω               | 30       | 250MHz           | 9.6GHz                          | New |
| LQW15AN4N2D80□ | 4.2nH ±0.5nH | 100MHz                    | 1800mA        | 0.044 Ω               | 30       | 250MHz           | 9.6GHz                          | New |
| LQW15AN4N3B80□ | 4.3nH ±0.1nH | 100MHz                    | 1800mA        | 0.044 Ω               | 32       | 250MHz           | 9.6GHz                          | New |
| LQW15AN4N3C80□ | 4.3nH ±0.2nH | 100MHz                    | 1800mA        | 0.044 Ω               | 32       | 250MHz           | 9.6GHz                          | New |
| LQW15AN4N3D80□ | 4.3nH ±0.5nH | 100MHz                    | 1800mA        | 0.044 Ω               | 32       | 250MHz           | 9.6GHz                          | New |
| LQW15AN4N4B80□ | 4.4nH ±0.1nH | 100MHz                    | 1600mA        | 0.052 Ω               | 34       | 250MHz           | 9.6GHz                          | New |
| LQW15AN4N4C80□ | 4.4nH ±0.2nH | 100MHz                    | 1600mA        | 0.052 Ω               | 34       | 250MHz           | 9.6GHz                          | New |
| LQW15AN4N4D80□ | 4.4nH ±0.5nH | 100MHz                    | 1600mA        | 0.052 Ω               | 34       | 250MHz           | 9.6GHz                          | New |
| LQW15AN4N5B80□ | 4.5nH ±0.1nH | 100MHz                    | 1450mA        | 0.060 Ω               | 34       | 250MHz           | 9.6GHz                          | New |
| LQW15AN4N5C80□ | 4.5nH ±0.2nH | 100MHz                    | 1450mA        | 0.060 Ω               | 34       | 250MHz           | 9.6GHz                          | New |
| LQW15AN4N5D80□ | 4.5nH ±0.5nH | 100MHz                    | 1450mA        | 0.060 Ω               | 34       | 250MHz           | 9.6GHz                          | New |
| LQW15AN4N6B80□ | 4.6nH ±0.1nH | 100MHz                    | 1450mA        | 0.060 Ω               | 32       | 250MHz           | 9.6GHz                          | New |
| LQW15AN4N6C80□ | 4.6nH ±0.2nH | 100MHz                    | 1450mA        | 0.060 Ω               | 32       | 250MHz           | 9.6GHz                          | New |
| LQW15AN4N6D80□ | 4.6nH ±0.5nH | 100MHz                    | 1450mA        | 0.060 Ω               | 32       | 250MHz           | 9.6GHz                          | New |
| LQW15AN4N7B80□ | 4.7nH ±0.1nH | 100MHz                    | 1200mA        | 0.071 Ω               | 31       | 250MHz           | 8.0GHz                          | New |
| LQW15AN4N7C80□ | 4.7nH ±0.2nH | 100MHz                    | 1200mA        | 0.071 Ω               | 31       | 250MHz           | 8.0GHz                          | New |
| LQW15AN4N7D80□ | 4.7nH ±0.5nH | 100MHz                    | 1200mA        | 0.071 Ω               | 31       | 250MHz           | 8.0GHz                          | New |
| LQW15AN4N8B80□ | 4.8nH ±0.1nH | 100MHz                    | 1200mA        | 0.071 Ω               | 30       | 250MHz           | 8.0GHz                          | New |

Operating Temperature Range (Self-temperature rise is not included): -55°C~+125°C  
For reflow soldering only.

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|----------------|--------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|-----|
| LQW15AN4N8C80□ | 4.8nH ±0.2nH | 100MHz                    | 1200mA        | 0.071 Ω               | 30       | 250MHz           | 8.0GHz                          | New |
| LQW15AN4N8D80□ | 4.8nH ±0.5nH | 100MHz                    | 1200mA        | 0.071 Ω               | 30       | 250MHz           | 8.0GHz                          | New |
| LQW15AN4N9B80□ | 4.9nH ±0.1nH | 100MHz                    | 1200mA        | 0.071 Ω               | 27       | 250MHz           | 8.0GHz                          | New |
| LQW15AN4N9C80□ | 4.9nH ±0.2nH | 100MHz                    | 1200mA        | 0.071 Ω               | 27       | 250MHz           | 8.0GHz                          | New |
| LQW15AN4N9D80□ | 4.9nH ±0.5nH | 100MHz                    | 1200mA        | 0.071 Ω               | 27       | 250MHz           | 8.0GHz                          | New |
| LQW15AN5N0B80□ | 5.0nH ±0.1nH | 100MHz                    | 1770mA        | 0.040 Ω               | 32       | 250MHz           | 10.0GHz                         | New |
| LQW15AN5N0C80□ | 5.0nH ±0.2nH | 100MHz                    | 1770mA        | 0.040 Ω               | 32       | 250MHz           | 10.0GHz                         | New |
| LQW15AN5N0D80□ | 5.0nH ±0.5nH | 100MHz                    | 1770mA        | 0.040 Ω               | 32       | 250MHz           | 10.0GHz                         | New |
| LQW15AN5N1B80□ | 5.1nH ±0.1nH | 100MHz                    | 1770mA        | 0.040 Ω               | 35       | 250MHz           | 8.0GHz                          | Kit |
| LQW15AN5N1C80□ | 5.1nH ±0.2nH | 100MHz                    | 1770mA        | 0.040 Ω               | 35       | 250MHz           | 8.0GHz                          |     |
| LQW15AN5N1D80□ | 5.1nH ±0.5nH | 100MHz                    | 1770mA        | 0.040 Ω               | 35       | 250MHz           | 8.0GHz                          |     |
| LQW15AN5N2B80□ | 5.2nH ±0.1nH | 100MHz                    | 1770mA        | 0.040 Ω               | 35       | 250MHz           | 8.0GHz                          | Kit |
| LQW15AN5N2C80□ | 5.2nH ±0.2nH | 100MHz                    | 1770mA        | 0.040 Ω               | 35       | 250MHz           | 8.0GHz                          |     |
| LQW15AN5N2D80□ | 5.2nH ±0.5nH | 100MHz                    | 1770mA        | 0.040 Ω               | 35       | 250MHz           | 8.0GHz                          |     |
| LQW15AN5N3B80□ | 5.3nH ±0.1nH | 100MHz                    | 1770mA        | 0.040 Ω               | 35       | 250MHz           | 8.0GHz                          | New |
| LQW15AN5N3C80□ | 5.3nH ±0.2nH | 100MHz                    | 1770mA        | 0.040 Ω               | 35       | 250MHz           | 8.0GHz                          | New |
| LQW15AN5N3D80□ | 5.3nH ±0.5nH | 100MHz                    | 1770mA        | 0.040 Ω               | 35       | 250MHz           | 8.0GHz                          | New |
| LQW15AN5N4B80□ | 5.4nH ±0.1nH | 100MHz                    | 1770mA        | 0.040 Ω               | 35       | 250MHz           | 8.0GHz                          | Kit |
| LQW15AN5N4C80□ | 5.4nH ±0.2nH | 100MHz                    | 1770mA        | 0.040 Ω               | 35       | 250MHz           | 8.0GHz                          |     |
| LQW15AN5N4D80□ | 5.4nH ±0.5nH | 100MHz                    | 1770mA        | 0.040 Ω               | 35       | 250MHz           | 8.0GHz                          |     |
| LQW15AN5N5B80□ | 5.5nH ±0.1nH | 100MHz                    | 1770mA        | 0.040 Ω               | 35       | 250MHz           | 8.0GHz                          | New |
| LQW15AN5N5C80□ | 5.5nH ±0.2nH | 100MHz                    | 1770mA        | 0.040 Ω               | 35       | 250MHz           | 8.0GHz                          | New |
| LQW15AN5N5D80□ | 5.5nH ±0.5nH | 100MHz                    | 1770mA        | 0.040 Ω               | 35       | 250MHz           | 8.0GHz                          | New |
| LQW15AN5N6B80□ | 5.6nH ±0.1nH | 100MHz                    | 1770mA        | 0.040 Ω               | 35       | 250MHz           | 8.0GHz                          | Kit |
| LQW15AN5N6C80□ | 5.6nH ±0.2nH | 100MHz                    | 1770mA        | 0.040 Ω               | 35       | 250MHz           | 8.0GHz                          |     |
| LQW15AN5N6D80□ | 5.6nH ±0.5nH | 100MHz                    | 1770mA        | 0.040 Ω               | 35       | 250MHz           | 8.0GHz                          |     |
| LQW15AN5N7B80□ | 5.7nH ±0.1nH | 100MHz                    | 1770mA        | 0.040 Ω               | 30       | 250MHz           | 8.0GHz                          | Kit |
| LQW15AN5N7C80□ | 5.7nH ±0.2nH | 100MHz                    | 1770mA        | 0.040 Ω               | 30       | 250MHz           | 8.0GHz                          |     |
| LQW15AN5N7D80□ | 5.7nH ±0.5nH | 100MHz                    | 1770mA        | 0.040 Ω               | 30       | 250MHz           | 8.0GHz                          |     |
| LQW15AN5N8B80□ | 5.8nH ±0.1nH | 100MHz                    | 1770mA        | 0.040 Ω               | 30       | 250MHz           | 8.0GHz                          | Kit |
| LQW15AN5N8C80□ | 5.8nH ±0.2nH | 100MHz                    | 1770mA        | 0.040 Ω               | 30       | 250MHz           | 8.0GHz                          |     |
| LQW15AN5N8D80□ | 5.8nH ±0.5nH | 100MHz                    | 1770mA        | 0.040 Ω               | 30       | 250MHz           | 8.0GHz                          |     |
| LQW15AN5N9B80□ | 5.9nH ±0.1nH | 100MHz                    | 1770mA        | 0.040 Ω               | 30       | 250MHz           | 8.0GHz                          | New |
| LQW15AN5N9C80□ | 5.9nH ±0.2nH | 100MHz                    | 1770mA        | 0.040 Ω               | 30       | 250MHz           | 8.0GHz                          | New |
| LQW15AN5N9D80□ | 5.9nH ±0.5nH | 100MHz                    | 1770mA        | 0.040 Ω               | 30       | 250MHz           | 8.0GHz                          | New |
| LQW15AN6N0B80□ | 6.0nH ±0.1nH | 100MHz                    | 1600mA        | 0.056 Ω               | 32       | 250MHz           | 8.0GHz                          | New |
| LQW15AN6N0C80□ | 6.0nH ±0.2nH | 100MHz                    | 1600mA        | 0.056 Ω               | 32       | 250MHz           | 8.0GHz                          | New |
| LQW15AN6N0D80□ | 6.0nH ±0.5nH | 100MHz                    | 1600mA        | 0.056 Ω               | 32       | 250MHz           | 8.0GHz                          | New |
| LQW15AN6N1B80□ | 6.1nH ±0.1nH | 100MHz                    | 1600mA        | 0.056 Ω               | 32       | 250MHz           | 8.0GHz                          | New |
| LQW15AN6N1C80□ | 6.1nH ±0.2nH | 100MHz                    | 1600mA        | 0.056 Ω               | 32       | 250MHz           | 8.0GHz                          | New |
| LQW15AN6N1D80□ | 6.1nH ±0.5nH | 100MHz                    | 1600mA        | 0.056 Ω               | 32       | 250MHz           | 8.0GHz                          | New |
| LQW15AN6N2B80□ | 6.2nH ±0.1nH | 100MHz                    | 1600mA        | 0.056 Ω               | 33       | 250MHz           | 8.0GHz                          | New |
| LQW15AN6N2C80□ | 6.2nH ±0.2nH | 100MHz                    | 1600mA        | 0.056 Ω               | 33       | 250MHz           | 8.0GHz                          | New |
| LQW15AN6N2D80□ | 6.2nH ±0.5nH | 100MHz                    | 1600mA        | 0.056 Ω               | 33       | 250MHz           | 8.0GHz                          | New |
| LQW15AN6N3G80□ | 6.3nH ±2%    | 100MHz                    | 1600mA        | 0.057 Ω               | 32       | 250MHz           | 7.8GHz                          | New |
| LQW15AN6N3J80□ | 6.3nH ±5%    | 100MHz                    | 1600mA        | 0.057 Ω               | 32       | 250MHz           | 7.8GHz                          | New |
| LQW15AN6N4G80□ | 6.4nH ±2%    | 100MHz                    | 1380mA        | 0.065 Ω               | 33       | 250MHz           | 7.0GHz                          | New |
| LQW15AN6N4J80□ | 6.4nH ±5%    | 100MHz                    | 1380mA        | 0.065 Ω               | 33       | 250MHz           | 7.0GHz                          | New |

Operating Temperature Range (Self-temperature rise is not included): -55°C~+125°C  
For reflow soldering only.

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| Part Number    | Inductance | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |     |
|----------------|------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|-----|
| LQW15AN6N5G80□ | 6.5nH ±2%  | 100MHz                    | 1380mA        | 0.065Ω                | 32       | 250MHz           | 7.0GHz                          | New |
| LQW15AN6N5J80□ | 6.5nH ±5%  | 100MHz                    | 1380mA        | 0.065Ω                | 32       | 250MHz           | 7.0GHz                          | New |
| LQW15AN6N6G80□ | 6.6nH ±2%  | 100MHz                    | 1280mA        | 0.078Ω                | 30       | 250MHz           | 7.0GHz                          | New |
| LQW15AN6N6J80□ | 6.6nH ±5%  | 100MHz                    | 1280mA        | 0.078Ω                | 30       | 250MHz           | 7.0GHz                          | New |
| LQW15AN6N7G80□ | 6.7nH ±2%  | 100MHz                    | 1280mA        | 0.078Ω                | 30       | 250MHz           | 7.0GHz                          | New |
| LQW15AN6N7J80□ | 6.7nH ±5%  | 100MHz                    | 1280mA        | 0.078Ω                | 30       | 250MHz           | 7.0GHz                          | New |
| LQW15AN6N8G80□ | 6.8nH ±2%  | 100MHz                    | 1450mA        | 0.068Ω                | 30       | 250MHz           | 7.0GHz                          | New |
| LQW15AN6N8J80□ | 6.8nH ±5%  | 100MHz                    | 1450mA        | 0.068Ω                | 30       | 250MHz           | 7.0GHz                          | New |
| LQW15AN6N9G80□ | 6.9nH ±2%  | 100MHz                    | 1420mA        | 0.069Ω                | 32       | 250MHz           | 8.5GHz                          | New |
| LQW15AN6N9J80□ | 6.9nH ±5%  | 100MHz                    | 1420mA        | 0.069Ω                | 32       | 250MHz           | 8.5GHz                          | New |
| LQW15AN7N0G80□ | 7.0nH ±2%  | 100MHz                    | 1420mA        | 0.069Ω                | 33       | 250MHz           | 8.0GHz                          | New |
| LQW15AN7N0J80□ | 7.0nH ±5%  | 100MHz                    | 1420mA        | 0.069Ω                | 33       | 250MHz           | 8.0GHz                          | New |
| LQW15AN7N1G80□ | 7.1nH ±2%  | 100MHz                    | 1420mA        | 0.069Ω                | 32       | 250MHz           | 7.0GHz                          | New |
| LQW15AN7N1J80□ | 7.1nH ±5%  | 100MHz                    | 1420mA        | 0.069Ω                | 32       | 250MHz           | 7.0GHz                          | New |
| LQW15AN7N2G80□ | 7.2nH ±2%  | 100MHz                    | 1700mA        | 0.050Ω                | 32       | 250MHz           | 7.0GHz                          | New |
| LQW15AN7N2J80□ | 7.2nH ±5%  | 100MHz                    | 1700mA        | 0.050Ω                | 32       | 250MHz           | 7.0GHz                          | New |
| LQW15AN7N3G80□ | 7.3nH ±2%  | 100MHz                    | 1700mA        | 0.050Ω                | 32       | 250MHz           | 7.0GHz                          | New |
| LQW15AN7N3J80□ | 7.3nH ±5%  | 100MHz                    | 1700mA        | 0.050Ω                | 32       | 250MHz           | 7.0GHz                          | New |
| LQW15AN7N4G80□ | 7.4nH ±2%  | 100MHz                    | 1700mA        | 0.050Ω                | 30       | 250MHz           | 7.0GHz                          | Kit |
| LQW15AN7N4J80□ | 7.4nH ±5%  | 100MHz                    | 1700mA        | 0.050Ω                | 30       | 250MHz           | 7.0GHz                          |     |
| LQW15AN7N5G80□ | 7.5nH ±2%  | 100MHz                    | 1700mA        | 0.050Ω                | 35       | 250MHz           | 7.0GHz                          | Kit |
| LQW15AN7N5J80□ | 7.5nH ±5%  | 100MHz                    | 1700mA        | 0.050Ω                | 35       | 250MHz           | 7.0GHz                          |     |
| LQW15AN7N6G80□ | 7.6nH ±2%  | 100MHz                    | 1700mA        | 0.050Ω                | 30       | 250MHz           | 7.0GHz                          | Kit |
| LQW15AN7N6J80□ | 7.6nH ±5%  | 100MHz                    | 1700mA        | 0.050Ω                | 30       | 250MHz           | 7.0GHz                          |     |
| LQW15AN7N7G80□ | 7.7nH ±2%  | 100MHz                    | 1700mA        | 0.050Ω                | 30       | 250MHz           | 7.0GHz                          | Kit |
| LQW15AN7N7J80□ | 7.7nH ±5%  | 100MHz                    | 1700mA        | 0.050Ω                | 30       | 250MHz           | 7.0GHz                          |     |
| LQW15AN7N8G80□ | 7.8nH ±2%  | 100MHz                    | 1700mA        | 0.050Ω                | 30       | 250MHz           | 7.0GHz                          | Kit |
| LQW15AN7N8J80□ | 7.8nH ±5%  | 100MHz                    | 1700mA        | 0.050Ω                | 30       | 250MHz           | 7.0GHz                          |     |
| LQW15AN7N9G80□ | 7.9nH ±2%  | 100MHz                    | 1700mA        | 0.050Ω                | 30       | 250MHz           | 7.0GHz                          | New |
| LQW15AN7N9J80□ | 7.9nH ±5%  | 100MHz                    | 1700mA        | 0.050Ω                | 30       | 250MHz           | 7.0GHz                          | New |
| LQW15AN8N0G80□ | 8.0nH ±2%  | 100MHz                    | 1700mA        | 0.050Ω                | 30       | 250MHz           | 7.0GHz                          | Kit |
| LQW15AN8N0J80□ | 8.0nH ±5%  | 100MHz                    | 1700mA        | 0.050Ω                | 30       | 250MHz           | 7.0GHz                          |     |
| LQW15AN8N1G80□ | 8.1nH ±2%  | 100MHz                    | 1500mA        | 0.069Ω                | 32       | 250MHz           | 6.5GHz                          | New |
| LQW15AN8N1J80□ | 8.1nH ±5%  | 100MHz                    | 1500mA        | 0.069Ω                | 32       | 250MHz           | 6.5GHz                          | New |
| LQW15AN8N2G80□ | 8.2nH ±2%  | 100MHz                    | 1500mA        | 0.069Ω                | 32       | 250MHz           | 6.5GHz                          | New |
| LQW15AN8N2J80□ | 8.2nH ±5%  | 100MHz                    | 1500mA        | 0.069Ω                | 32       | 250MHz           | 6.5GHz                          | New |
| LQW15AN8N3G80□ | 8.3nH ±2%  | 100MHz                    | 1500mA        | 0.069Ω                | 32       | 250MHz           | 6.5GHz                          | New |
| LQW15AN8N3J80□ | 8.3nH ±5%  | 100MHz                    | 1500mA        | 0.069Ω                | 32       | 250MHz           | 6.5GHz                          | New |
| LQW15AN8N4G80□ | 8.4nH ±2%  | 100MHz                    | 1500mA        | 0.069Ω                | 32       | 250MHz           | 6.5GHz                          | New |
| LQW15AN8N4J80□ | 8.4nH ±5%  | 100MHz                    | 1500mA        | 0.069Ω                | 32       | 250MHz           | 6.5GHz                          | New |
| LQW15AN8N5G80□ | 8.5nH ±2%  | 100MHz                    | 1500mA        | 0.069Ω                | 32       | 250MHz           | 6.5GHz                          | New |
| LQW15AN8N5J80□ | 8.5nH ±5%  | 100MHz                    | 1500mA        | 0.069Ω                | 32       | 250MHz           | 6.5GHz                          | New |
| LQW15AN8N6G80□ | 8.6nH ±2%  | 100MHz                    | 1420mA        | 0.070Ω                | 31       | 250MHz           | 6.5GHz                          | New |
| LQW15AN8N6J80□ | 8.6nH ±5%  | 100MHz                    | 1420mA        | 0.070Ω                | 31       | 250MHz           | 6.5GHz                          | New |
| LQW15AN8N7G80□ | 8.7nH ±2%  | 100MHz                    | 1420mA        | 0.070Ω                | 31       | 250MHz           | 6.5GHz                          | New |
| LQW15AN8N7J80□ | 8.7nH ±5%  | 100MHz                    | 1420mA        | 0.070Ω                | 31       | 250MHz           | 6.5GHz                          | New |
| LQW15AN8N8G80□ | 8.8nH ±2%  | 100MHz                    | 1420mA        | 0.070Ω                | 31       | 250MHz           | 6.5GHz                          | New |
| LQW15AN8N8J80□ | 8.8nH ±5%  | 100MHz                    | 1420mA        | 0.070Ω                | 31       | 250MHz           | 6.5GHz                          | New |

Operating Temperature Range (Self-temperature rise is not included): -55°C~+125°C  
For reflow soldering only.

Continued on the following page. 

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• This catalog has only typical specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

| Part Number    | Inductance | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |     |
|----------------|------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|-----|
| LQW15AN8N9G80□ | 8.9nH ±2%  | 100MHz                    | 1420mA        | 0.070 Ω               | 31       | 250MHz           | 6.5GHz                          | New |
| LQW15AN8N9J80□ | 8.9nH ±5%  | 100MHz                    | 1420mA        | 0.070 Ω               | 31       | 250MHz           | 6.5GHz                          | New |
| LQW15AN9N0G80□ | 9nH ±2%    | 100MHz                    | 1420mA        | 0.070 Ω               | 30       | 250MHz           | 6.5GHz                          | New |
| LQW15AN9N0J80□ | 9nH ±5%    | 100MHz                    | 1420mA        | 0.070 Ω               | 30       | 250MHz           | 6.5GHz                          | New |
| LQW15AN9N1G80□ | 9.1nH ±2%  | 100MHz                    | 1400mA        | 0.080 Ω               | 32       | 250MHz           | 6.5GHz                          | New |
| LQW15AN9N1J80□ | 9.1nH ±5%  | 100MHz                    | 1400mA        | 0.080 Ω               | 32       | 250MHz           | 6.5GHz                          | New |
| LQW15AN9N2G80□ | 9.2nH ±2%  | 100MHz                    | 1400mA        | 0.081 Ω               | 32       | 250MHz           | 6.0GHz                          | New |
| LQW15AN9N2J80□ | 9.2nH ±5%  | 100MHz                    | 1400mA        | 0.081 Ω               | 32       | 250MHz           | 6.0GHz                          | New |
| LQW15AN9N3G80□ | 9.3nH ±2%  | 100MHz                    | 1400mA        | 0.081 Ω               | 34       | 250MHz           | 6.0GHz                          | New |
| LQW15AN9N3J80□ | 9.3nH ±5%  | 100MHz                    | 1400mA        | 0.081 Ω               | 34       | 250MHz           | 6.0GHz                          | New |
| LQW15AN9N4G80□ | 9.4nH ±2%  | 100MHz                    | 1400mA        | 0.081 Ω               | 33       | 250MHz           | 6.0GHz                          | New |
| LQW15AN9N4J80□ | 9.4nH ±5%  | 100MHz                    | 1400mA        | 0.081 Ω               | 33       | 250MHz           | 6.0GHz                          | New |
| LQW15AN9N5G80□ | 9.5nH ±2%  | 100MHz                    | 1400mA        | 0.081 Ω               | 32       | 250MHz           | 6.0GHz                          | New |
| LQW15AN9N5J80□ | 9.5nH ±5%  | 100MHz                    | 1400mA        | 0.081 Ω               | 32       | 250MHz           | 6.0GHz                          | New |
| LQW15AN9N6G80□ | 9.6nH ±2%  | 100MHz                    | 1400mA        | 0.081 Ω               | 33       | 250MHz           | 6.0GHz                          | New |
| LQW15AN9N6J80□ | 9.6nH ±5%  | 100MHz                    | 1400mA        | 0.081 Ω               | 33       | 250MHz           | 6.0GHz                          | New |
| LQW15AN9N7G80□ | 9.7nH ±2%  | 100MHz                    | 1400mA        | 0.081 Ω               | 33       | 250MHz           | 6.0GHz                          | New |
| LQW15AN9N7J80□ | 9.7nH ±5%  | 100MHz                    | 1400mA        | 0.081 Ω               | 33       | 250MHz           | 6.0GHz                          | New |
| LQW15AN9N8G80□ | 9.8nH ±2%  | 100MHz                    | 1400mA        | 0.081 Ω               | 34       | 250MHz           | 6.0GHz                          | New |
| LQW15AN9N8J80□ | 9.8nH ±5%  | 100MHz                    | 1400mA        | 0.081 Ω               | 34       | 250MHz           | 6.0GHz                          | New |
| LQW15AN9N9G80□ | 9.9nH ±2%  | 100MHz                    | 1400mA        | 0.081 Ω               | 32       | 250MHz           | 6.0GHz                          | New |
| LQW15AN9N9J80□ | 9.9nH ±5%  | 100MHz                    | 1400mA        | 0.081 Ω               | 32       | 250MHz           | 6.0GHz                          | New |
| LQW15AN10NG80□ | 10nH ±2%   | 100MHz                    | 1400mA        | 0.081 Ω               | 31       | 250MHz           | 6.0GHz                          | New |
| LQW15AN10NJ80□ | 10nH ±5%   | 100MHz                    | 1400mA        | 0.081 Ω               | 31       | 250MHz           | 6.0GHz                          | New |
| LQW15AN11NG80□ | 11nH ±2%   | 100MHz                    | 1400mA        | 0.083 Ω               | 32       | 250MHz           | 6.2GHz                          | New |
| LQW15AN11NJ80□ | 11nH ±5%   | 100MHz                    | 1400mA        | 0.083 Ω               | 32       | 250MHz           | 6.2GHz                          | New |
| LQW15AN12NG80□ | 12nH ±2%   | 100MHz                    | 1240mA        | 0.093 Ω               | 30       | 250MHz           | 5.2GHz                          | New |
| LQW15AN12NJ80□ | 12nH ±5%   | 100MHz                    | 1240mA        | 0.093 Ω               | 30       | 250MHz           | 5.2GHz                          | New |
| LQW15AN13NG80□ | 13nH ±2%   | 100MHz                    | 1240mA        | 0.093 Ω               | 30       | 250MHz           | 5.2GHz                          | Kit |
| LQW15AN13NJ80□ | 13nH ±5%   | 100MHz                    | 1240mA        | 0.093 Ω               | 30       | 250MHz           | 5.2GHz                          |     |
| LQW15AN14NG80□ | 14nH ±2%   | 100MHz                    | 1150mA        | 0.111 Ω               | 31       | 250MHz           | 5.2GHz                          | New |
| LQW15AN14NJ80□ | 14nH ±5%   | 100MHz                    | 1150mA        | 0.111 Ω               | 31       | 250MHz           | 5.2GHz                          | New |
| LQW15AN15NG80□ | 15nH ±2%   | 100MHz                    | 1150mA        | 0.114 Ω               | 31       | 250MHz           | 5.5GHz                          | New |
| LQW15AN15NJ80□ | 15nH ±5%   | 100MHz                    | 1150mA        | 0.114 Ω               | 31       | 250MHz           | 5.5GHz                          | New |
| LQW15AN16NG80□ | 16nH ±2%   | 100MHz                    | 1000mA        | 0.126 Ω               | 31       | 250MHz           | 5.0GHz                          | New |
| LQW15AN16NJ80□ | 16nH ±5%   | 100MHz                    | 1000mA        | 0.126 Ω               | 31       | 250MHz           | 5.0GHz                          | New |
| LQW15AN17NG80□ | 17nH ±2%   | 100MHz                    | 1000mA        | 0.126 Ω               | 30       | 250MHz           | 5.0GHz                          | New |
| LQW15AN17NJ80□ | 17nH ±5%   | 100MHz                    | 1000mA        | 0.126 Ω               | 30       | 250MHz           | 5.0GHz                          | New |
| LQW15AN18NG80□ | 18nH ±2%   | 100MHz                    | 1050mA        | 0.130 Ω               | 30       | 250MHz           | 5.2GHz                          | New |
| LQW15AN18NJ80□ | 18nH ±5%   | 100MHz                    | 1050mA        | 0.130 Ω               | 30       | 250MHz           | 5.2GHz                          | New |
| LQW15AN19NG80□ | 19nH ±2%   | 100MHz                    | 920mA         | 0.156 Ω               | 30       | 250MHz           | 5.0GHz                          | New |
| LQW15AN19NJ80□ | 19nH ±5%   | 100MHz                    | 920mA         | 0.156 Ω               | 30       | 250MHz           | 5.0GHz                          | New |
| LQW15AN20NG80□ | 20nH ±2%   | 100MHz                    | 800mA         | 0.186 Ω               | 30       | 250MHz           | 4.5GHz                          | New |
| LQW15AN20NJ80□ | 20nH ±5%   | 100MHz                    | 800mA         | 0.186 Ω               | 30       | 250MHz           | 4.5GHz                          | New |
| LQW15AN21NG80□ | 21nH ±2%   | 100MHz                    | 780mA         | 0.202 Ω               | 30       | 250MHz           | 4.5GHz                          | New |
| LQW15AN21NJ80□ | 21nH ±5%   | 100MHz                    | 780mA         | 0.202 Ω               | 30       | 250MHz           | 4.5GHz                          | New |
| LQW15AN22NG80□ | 22nH ±2%   | 100MHz                    | 780mA         | 0.202 Ω               | 30       | 250MHz           | 4.5GHz                          | New |
| LQW15AN22NJ80□ | 22nH ±5%   | 100MHz                    | 780mA         | 0.202 Ω               | 30       | 250MHz           | 4.5GHz                          | New |

Operating Temperature Range (Self-temperature rise is not included): -55°C~+125°C  
For reflow soldering only.

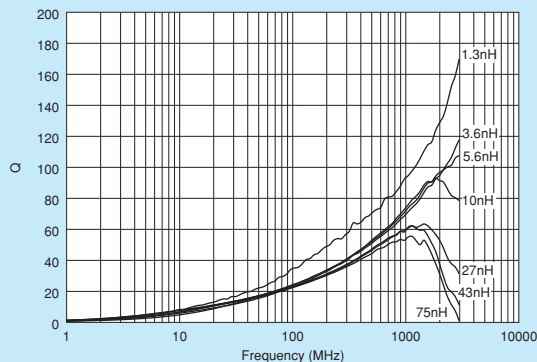
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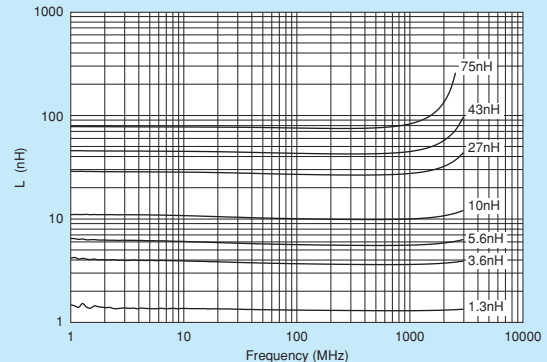
| Part Number    | Inductance | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |     |
|----------------|------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|-----|
| LQW15AN23NG80□ | 23nH ±2%   | 100MHz                    | 760mA         | 0.201 Ω               | 29       | 250MHz           | 4.5GHz                          | New |
| LQW15AN23NJ80□ | 23nH ±5%   | 100MHz                    | 760mA         | 0.201 Ω               | 29       | 250MHz           | 4.5GHz                          | New |
| LQW15AN24NG80□ | 24nH ±2%   | 100MHz                    | 770mA         | 0.212 Ω               | 31       | 250MHz           | 4.0GHz                          | New |
| LQW15AN24NJ80□ | 24nH ±5%   | 100MHz                    | 770mA         | 0.212 Ω               | 31       | 250MHz           | 4.0GHz                          | New |
| LQW15AN25NG80□ | 25nH ±2%   | 100MHz                    | 750mA         | 0.221 Ω               | 31       | 250MHz           | 4.1GHz                          | New |
| LQW15AN25NJ80□ | 25nH ±5%   | 100MHz                    | 750mA         | 0.221 Ω               | 31       | 250MHz           | 4.1GHz                          | New |
| LQW15AN26NG80□ | 26nH ±2%   | 100MHz                    | 720mA         | 0.282 Ω               | 29       | 250MHz           | 4.1GHz                          | New |
| LQW15AN26NJ80□ | 26nH ±5%   | 100MHz                    | 720mA         | 0.282 Ω               | 29       | 250MHz           | 4.1GHz                          | New |
| LQW15AN27NG80□ | 27nH ±2%   | 100MHz                    | 680mA         | 0.288 Ω               | 30       | 250MHz           | 4.0GHz                          | Kit |
| LQW15AN27NJ80□ | 27nH ±5%   | 100MHz                    | 680mA         | 0.288 Ω               | 30       | 250MHz           | 4.0GHz                          |     |
| LQW15AN30NG80□ | 30nH ±2%   | 100MHz                    | 660mA         | 0.309 Ω               | 30       | 250MHz           | 3.8GHz                          | New |
| LQW15AN30NJ80□ | 30nH ±5%   | 100MHz                    | 660mA         | 0.309 Ω               | 30       | 250MHz           | 3.8GHz                          | New |
| LQW15AN33NG80□ | 33nH ±2%   | 100MHz                    | 620mA         | 0.336 Ω               | 30       | 250MHz           | 3.6GHz                          | Kit |
| LQW15AN33NJ80□ | 33nH ±5%   | 100MHz                    | 620mA         | 0.336 Ω               | 30       | 250MHz           | 3.6GHz                          |     |
| LQW15AN36NG80□ | 36nH ±2%   | 100MHz                    | 540mA         | 0.431 Ω               | 30       | 250MHz           | 3.5GHz                          | New |
| LQW15AN36NJ80□ | 36nH ±5%   | 100MHz                    | 540mA         | 0.431 Ω               | 30       | 250MHz           | 3.5GHz                          | New |
| LQW15AN39NG80□ | 39nH ±2%   | 100MHz                    | 530mA         | 0.456 Ω               | 28       | 250MHz           | 3.4GHz                          | New |
| LQW15AN39NJ80□ | 39nH ±5%   | 100MHz                    | 530mA         | 0.456 Ω               | 28       | 250MHz           | 3.4GHz                          | New |
| LQW15AN43NG80□ | 43nH ±2%   | 100MHz                    | 515mA         | 0.516 Ω               | 30       | 250MHz           | 3.4GHz                          | Kit |
| LQW15AN43NJ80□ | 43nH ±5%   | 100MHz                    | 515mA         | 0.516 Ω               | 30       | 250MHz           | 3.4GHz                          |     |
| LQW15AN47NG80□ | 47nH ±2%   | 100MHz                    | 440mA         | 0.648 Ω               | 25       | 200MHz           | 3.2GHz                          | New |
| LQW15AN47NJ80□ | 47nH ±5%   | 100MHz                    | 440mA         | 0.648 Ω               | 25       | 200MHz           | 3.2GHz                          | New |
| LQW15AN51NG80□ | 51nH ±2%   | 100MHz                    | 415mA         | 0.696 Ω               | 25       | 200MHz           | 2.9GHz                          | New |
| LQW15AN51NJ80□ | 51nH ±5%   | 100MHz                    | 415mA         | 0.696 Ω               | 25       | 200MHz           | 2.9GHz                          | New |
| LQW15AN53NG80□ | 53nH ±2%   | 100MHz                    | 415mA         | 0.696 Ω               | 25       | 200MHz           | 2.9GHz                          | Kit |
| LQW15AN53NJ80□ | 53nH ±5%   | 100MHz                    | 415mA         | 0.696 Ω               | 25       | 200MHz           | 2.9GHz                          |     |
| LQW15AN56NG80□ | 56nH ±2%   | 100MHz                    | 340mA         | 0.996 Ω               | 25       | 200MHz           | 2.9GHz                          | New |
| LQW15AN56NJ80□ | 56nH ±5%   | 100MHz                    | 340mA         | 0.996 Ω               | 25       | 200MHz           | 2.9GHz                          | New |
| LQW15AN68NG80□ | 68nH ±2%   | 100MHz                    | 320mA         | 1.128 Ω               | 25       | 200MHz           | 2.5GHz                          | New |
| LQW15AN68NJ80□ | 68nH ±5%   | 100MHz                    | 320mA         | 1.128 Ω               | 25       | 200MHz           | 2.5GHz                          | New |
| LQW15AN75NG80□ | 75nH ±2%   | 100MHz                    | 320mA         | 1.224 Ω               | 25       | 200MHz           | 2.4GHz                          | Kit |
| LQW15AN75NJ80□ | 75nH ±5%   | 100MHz                    | 320mA         | 1.224 Ω               | 25       | 200MHz           | 2.4GHz                          |     |

Operating Temperature Range (Self-temperature rise is not included): -55°C~+125°C  
For reflow soldering only.

■ Q-Frequency Characteristics (Typ.)



■ Inductance-Frequency Characteristics (Typ.)



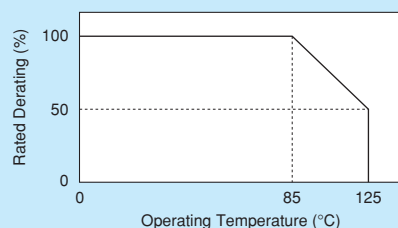
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### Derating of Rated Current

In operating temperature exceeding +85°C, derating of current is necessary for LQW15AN\_80 series.  
Please apply the derating curve shown in chart according to the operating temperature.

Derating of Rated Current



### Reference Data

4991A&16197A

| Part Number | Inductance (nH) | Q (Typ.) |        |        |        |        |
|-------------|-----------------|----------|--------|--------|--------|--------|
|             | Nominal         | 800MHz   | 900MHz | 1.8GHz | 2.0GHz | 2.4GHz |
| LQW15AN1N3  | 1.3             | 83       | 88     | 121    | 128    | 144    |
| LQW15AN1N6  | 1.6             | 53       | 57     | 87     | 93     | 101    |
| LQW15AN1N7  | 1.7             | 52       | 57     | 86     | 92     | 100    |
| LQW15AN2N3  | 2.3             | 70       | 74     | 104    | 108    | 119    |
| LQW15AN2N4  | 2.4             | 63       | 67     | 93     | 97     | 107    |
| LQW15AN2N5  | 2.5             | 64       | 68     | 102    | 109    | 119    |
| LQW15AN2N6  | 2.6             | 64       | 68     | 102    | 107    | 115    |
| LQW15AN2N7  | 2.7             | 60       | 64     | 95     | 102    | 111    |
| LQW15AN2N8  | 2.8             | 61       | 66     | 99     | 104    | 110    |
| LQW15AN2N9  | 2.9             | 61       | 65     | 97     | 102    | 108    |
| LQW15AN3N4  | 3.4             | 66       | 70     | 96     | 99     | 108    |
| LQW15AN3N5  | 3.5             | 74       | 77     | 107    | 110    | 119    |
| LQW15AN3N6  | 3.6             | 62       | 66     | 91     | 94     | 103    |
| LQW15AN3N7  | 3.7             | 74       | 78     | 104    | 108    | 117    |
| LQW15AN3N8  | 3.8             | 68       | 72     | 99     | 103    | 111    |
| LQW15AN3N9  | 3.9             | 75       | 80     | 110    | 114    | 121    |
| LQW15AN4N0  | 4.0             | 68       | 71     | 97     | 101    | 108    |
| LQW15AN4N2  | 4.2             | 70       | 75     | 107    | 112    | 120    |
| LQW15AN4N4  | 4.4             | 65       | 69     | 99     | 103    | 105    |
| LQW15AN4N5  | 4.5             | 66       | 70     | 99     | 103    | 105    |
| LQW15AN4N7  | 4.7             | 58       | 61     | 85     | 90     | 95     |
| LQW15AN4N8  | 4.8             | 58       | 61     | 83     | 87     | 93     |
| LQW15AN5N1  | 5.1             | 64       | 68     | 94     | 97     | 104    |
| LQW15AN5N2  | 5.2             | 66       | 70     | 96     | 100    | 107    |
| LQW15AN5N3  | 5.3             | 71       | 75     | 103    | 106    | 114    |
| LQW15AN5N4  | 5.4             | 62       | 66     | 88     | 92     | 95     |
| LQW15AN5N5  | 5.5             | 70       | 74     | 99     | 102    | 107    |
| LQW15AN5N6  | 5.6             | 64       | 68     | 93     | 96     | 100    |
| LQW15AN5N7  | 5.7             | 68       | 73     | 97     | 101    | 107    |
| LQW15AN5N8  | 5.8             | 65       | 69     | 92     | 94     | 97     |
| LQW15AN5N9  | 5.9             | 69       | 73     | 96     | 98     | 103    |
| LQW15AN6N0  | 6.0             | 63       | 67     | 94     | 96     | 96     |

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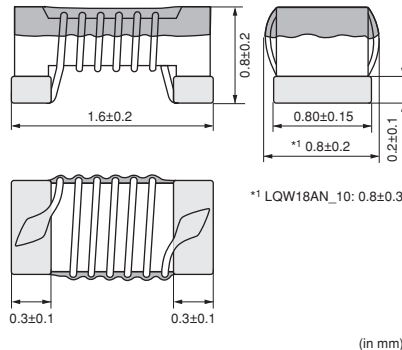
| Part Number | Inductance (nH) | Q (Typ.) |        |        |        |        |
|-------------|-----------------|----------|--------|--------|--------|--------|
|             | Nominal         | 800MHz   | 900MHz | 1.8GHz | 2.0GHz | 2.4GHz |
| LQW15AN6N2  | 6.2             | 70       | 74     | 102    | 104    | 102    |
| LQW15AN6N4  | 6.4             | 59       | 64     | 89     | 91     | 90     |
| LQW15AN6N5  | 6.5             | 62       | 66     | 84     | 83     | 76     |
| LQW15AN6N6  | 6.6             | 64       | 68     | 92     | 94     | 93     |
| LQW15AN6N7  | 6.7             | 62       | 66     | 90     | 92     | 91     |
| LQW15AN6N9  | 6.9             | 65       | 70     | 96     | 97     | 93     |
| LQW15AN7N0  | 7.0             | 66       | 71     | 101    | 104    | 105    |
| LQW15AN7N4  | 7.4             | 63       | 67     | 91     | 93     | 97     |
| LQW15AN7N5  | 7.5             | 65       | 69     | 89     | 92     | 98     |
| LQW15AN7N6  | 7.6             | 64       | 68     | 90     | 92     | 93     |
| LQW15AN7N7  | 7.7             | 62       | 66     | 86     | 88     | 88     |
| LQW15AN7N8  | 7.8             | 66       | 71     | 89     | 90     | 87     |
| LQW15AN7N9  | 7.9             | 69       | 72     | 92     | 94     | 96     |
| LQW15AN8N0  | 8.0             | 64       | 67     | 84     | 84     | 81     |
| LQW15AN8N2  | 8.2             | 63       | 67     | 89     | 92     | 95     |
| LQW15AN8N4  | 8.4             | 68       | 72     | 96     | 96     | 91     |
| LQW15AN9N1  | 9.1             | 62       | 66     | 87     | 87     | 82     |
| LQW15AN9N2  | 9.2             | 61       | 65     | 89     | 90     | 87     |
| LQW15AN9N4  | 9.4             | 65       | 70     | 96     | 97     | 93     |
| LQW15AN9N5  | 9.5             | 63       | 67     | 89     | 90     | 85     |
| LQW15AN9N6  | 9.6             | 65       | 69     | 92     | 92     | 87     |
| LQW15AN9N8  | 9.8             | 63       | 67     | 92     | 93     | 89     |
| LQW15AN10N  | 10              | 65       | 70     | 92     | 91     | 85     |
| LQW15AN12N  | 12              | 60       | 64     | 82     | 85     | 86     |
| LQW15AN13N  | 13              | 60       | 63     | 74     | 73     | 65     |
| LQW15AN16N  | 16              | 61       | 64     | 80     | 78     | 68     |
| LQW15AN20N  | 20              | 58       | 61     | 70     | 67     | 57     |
| LQW15AN21N  | 21              | 59       | 63     | 72     | 69     | 57     |
| LQW15AN24N  | 24              | 56       | 59     | 67     | 63     | 51     |
| LQW15AN25N  | 25              | 57       | 60     | 70     | 66     | 54     |
| LQW15AN27N  | 27              | 55       | 58     | 58     | 53     | 40     |
| LQW15AN33N  | 33              | 54       | 56     | 50     | 45     | 32     |
| LQW15AN43N  | 43              | 56       | 59     | 48     | 38     | 21     |
| LQW15AN51N  | 51              | 55       | 59     | 37     | 30     | 32     |
| LQW15AN53N  | 53              | 53       | 55     | 50     | 43     | 26     |
| LQW15AN68N  | 68              | 49       | 50     | 37     | 31     | 16     |
| LQW15AN75N  | 75              | 52       | 53     | 40     | 31     | 15     |

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# LQW18AN\_00

Series 0603/1608 (inch/mm)

Size Code 0603 (1608) in inch (in mm), Wound Type

■ Appearance/  
Dimensions

## ■ Packaging

| Code | Packaging           | Minimum Quantity |
|------|---------------------|------------------|
| D    | ø180mm Paper Taping | 4000             |
| J    | ø330mm Paper Taping | 10000            |
| B    | Packing in Bulk     | 500              |



Refer to pages 227 to 230 for mounting information.

## ■ Rated Value (□: packaging code)

| Part Number    | Inductance   | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |     |
|----------------|--------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|-----|
| LQW18AN2N2D00□ | 2.2nH ±0.5nH | 100MHz                    | 700mA         | 0.049Ω                | 16       | 250MHz           | 6000MHz                         |     |
| LQW18AN3N6C00□ | 3.6nH ±0.2nH | 100MHz                    | 850mA         | 0.059Ω                | 25       | 250MHz           | 6000MHz                         | Kit |
| LQW18AN3N6D00□ | 3.6nH ±0.5nH | 100MHz                    | 850mA         | 0.059Ω                | 25       | 250MHz           | 6000MHz                         |     |
| LQW18AN3N9C00□ | 3.9nH ±0.2nH | 100MHz                    | 850mA         | 0.059Ω                | 35       | 250MHz           | 6000MHz                         | Kit |
| LQW18AN3N9D00□ | 3.9nH ±0.5nH | 100MHz                    | 850mA         | 0.059Ω                | 35       | 250MHz           | 6000MHz                         |     |
| LQW18AN4N3C00□ | 4.3nH ±0.2nH | 100MHz                    | 850mA         | 0.059Ω                | 35       | 250MHz           | 6000MHz                         | Kit |
| LQW18AN4N3D00□ | 4.3nH ±0.5nH | 100MHz                    | 850mA         | 0.059Ω                | 35       | 250MHz           | 6000MHz                         |     |
| LQW18AN4N7D00□ | 4.7nH ±0.5nH | 100MHz                    | 850mA         | 0.059Ω                | 35       | 250MHz           | 6000MHz                         |     |
| LQW18AN5N6C00□ | 5.6nH ±0.2nH | 100MHz                    | 750mA         | 0.082Ω                | 35       | 250MHz           | 6000MHz                         | Kit |
| LQW18AN5N6D00□ | 5.6nH ±0.5nH | 100MHz                    | 750mA         | 0.082Ω                | 35       | 250MHz           | 6000MHz                         |     |
| LQW18AN6N2C00□ | 6.2nH ±0.2nH | 100MHz                    | 750mA         | 0.082Ω                | 35       | 250MHz           | 6000MHz                         | Kit |
| LQW18AN6N2D00□ | 6.2nH ±0.5nH | 100MHz                    | 750mA         | 0.082Ω                | 35       | 250MHz           | 6000MHz                         |     |
| LQW18AN6N8C00□ | 6.8nH ±0.2nH | 100MHz                    | 750mA         | 0.082Ω                | 35       | 250MHz           | 6000MHz                         | Kit |
| LQW18AN6N8D00□ | 6.8nH ±0.5nH | 100MHz                    | 750mA         | 0.082Ω                | 35       | 250MHz           | 6000MHz                         |     |
| LQW18AN7N5C00□ | 7.5nH ±0.2nH | 100MHz                    | 750mA         | 0.082Ω                | 35       | 250MHz           | 6000MHz                         |     |
| LQW18AN7N5D00□ | 7.5nH ±0.5nH | 100MHz                    | 750mA         | 0.082Ω                | 35       | 250MHz           | 6000MHz                         |     |
| LQW18AN8N2C00□ | 8.2nH ±0.2nH | 100MHz                    | 650mA         | 0.11Ω                 | 35       | 250MHz           | 6000MHz                         |     |
| LQW18AN8N2D00□ | 8.2nH ±0.5nH | 100MHz                    | 650mA         | 0.11Ω                 | 35       | 250MHz           | 6000MHz                         |     |
| LQW18AN8N7C00□ | 8.7nH ±0.2nH | 100MHz                    | 650mA         | 0.11Ω                 | 35       | 250MHz           | 6000MHz                         |     |
| LQW18AN8N7D00□ | 8.7nH ±0.5nH | 100MHz                    | 650mA         | 0.11Ω                 | 35       | 250MHz           | 6000MHz                         |     |
| LQW18AN9N1C00□ | 9.1nH ±0.2nH | 100MHz                    | 650mA         | 0.11Ω                 | 35       | 250MHz           | 6000MHz                         |     |
| LQW18AN9N1D00□ | 9.1nH ±0.5nH | 100MHz                    | 650mA         | 0.11Ω                 | 35       | 250MHz           | 6000MHz                         |     |
| LQW18AN9N5D00□ | 9.5nH ±0.5nH | 100MHz                    | 650mA         | 0.11Ω                 | 35       | 250MHz           | 6000MHz                         |     |
| LQW18AN10NG00□ | 10nH ±2%     | 100MHz                    | 650mA         | 0.11Ω                 | 35       | 250MHz           | 6000MHz                         | Kit |
| LQW18AN10NJ00□ | 10nH ±5%     | 100MHz                    | 650mA         | 0.11Ω                 | 35       | 250MHz           | 6000MHz                         |     |
| LQW18AN11NG00□ | 11nH ±2%     | 100MHz                    | 650mA         | 0.11Ω                 | 35       | 250MHz           | 6000MHz                         | Kit |
| LQW18AN11NJ00□ | 11nH ±5%     | 100MHz                    | 650mA         | 0.11Ω                 | 35       | 250MHz           | 6000MHz                         |     |
| LQW18AN12NG00□ | 12nH ±2%     | 100MHz                    | 600mA         | 0.13Ω                 | 35       | 250MHz           | 6000MHz                         | Kit |
| LQW18AN12NJ00□ | 12nH ±5%     | 100MHz                    | 600mA         | 0.13Ω                 | 35       | 250MHz           | 6000MHz                         |     |
| LQW18AN13NG00□ | 13nH ±2%     | 100MHz                    | 600mA         | 0.13Ω                 | 35       | 250MHz           | 6000MHz                         | Kit |
| LQW18AN13NJ00□ | 13nH ±5%     | 100MHz                    | 600mA         | 0.13Ω                 | 35       | 250MHz           | 6000MHz                         |     |
| LQW18AN15NG00□ | 15nH ±2%     | 100MHz                    | 600mA         | 0.13Ω                 | 40       | 250MHz           | 6000MHz                         | Kit |

Operating Temperature Range (Self-temperature rise is not included): -55°C~+125°C  
For reflow soldering only.

Continued on the following page.

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| Part Number    | Inductance | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |     |
|----------------|------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|-----|
| LQW18AN15NJ00□ | 15nH ±5%   | 100MHz                    | 600mA         | 0.13Ω                 | 40       | 250MHz           | 6000MHz                         |     |
| LQW18AN16NG00□ | 16nH ±2%   | 100MHz                    | 550mA         | 0.16Ω                 | 40       | 250MHz           | 5500MHz                         | Kit |
| LQW18AN16NJ00□ | 16nH ±5%   | 100MHz                    | 550mA         | 0.16Ω                 | 40       | 250MHz           | 5500MHz                         |     |
| LQW18AN18NG00□ | 18nH ±2%   | 100MHz                    | 550mA         | 0.16Ω                 | 40       | 250MHz           | 5500MHz                         | Kit |
| LQW18AN18NJ00□ | 18nH ±5%   | 100MHz                    | 550mA         | 0.16Ω                 | 40       | 250MHz           | 5500MHz                         |     |
| LQW18AN20NG00□ | 20nH ±2%   | 100MHz                    | 550mA         | 0.16Ω                 | 40       | 250MHz           | 4900MHz                         | Kit |
| LQW18AN20NJ00□ | 20nH ±5%   | 100MHz                    | 550mA         | 0.16Ω                 | 40       | 250MHz           | 4900MHz                         |     |
| LQW18AN22NG00□ | 22nH ±2%   | 100MHz                    | 500mA         | 0.17Ω                 | 40       | 250MHz           | 4600MHz                         | Kit |
| LQW18AN22NJ00□ | 22nH ±5%   | 100MHz                    | 500mA         | 0.17Ω                 | 40       | 250MHz           | 4600MHz                         |     |
| LQW18AN24NG00□ | 24nH ±2%   | 100MHz                    | 500mA         | 0.21Ω                 | 40       | 250MHz           | 3800MHz                         | Kit |
| LQW18AN24NJ00□ | 24nH ±5%   | 100MHz                    | 500mA         | 0.21Ω                 | 40       | 250MHz           | 3800MHz                         |     |
| LQW18AN27NG00□ | 27nH ±2%   | 100MHz                    | 440mA         | 0.21Ω                 | 40       | 250MHz           | 3700MHz                         | Kit |
| LQW18AN27NJ00□ | 27nH ±5%   | 100MHz                    | 440mA         | 0.21Ω                 | 40       | 250MHz           | 3700MHz                         |     |
| LQW18AN30NG00□ | 30nH ±2%   | 100MHz                    | 420mA         | 0.23Ω                 | 40       | 250MHz           | 3300MHz                         | Kit |
| LQW18AN30NJ00□ | 30nH ±5%   | 100MHz                    | 420mA         | 0.23Ω                 | 40       | 250MHz           | 3300MHz                         |     |
| LQW18AN33NG00□ | 33nH ±2%   | 100MHz                    | 420mA         | 0.23Ω                 | 40       | 250MHz           | 3200MHz                         | Kit |
| LQW18AN33NJ00□ | 33nH ±5%   | 100MHz                    | 420mA         | 0.23Ω                 | 40       | 250MHz           | 3200MHz                         |     |
| LQW18AN36NG00□ | 36nH ±2%   | 100MHz                    | 400mA         | 0.26Ω                 | 40       | 250MHz           | 2900MHz                         | Kit |
| LQW18AN36NJ00□ | 36nH ±5%   | 100MHz                    | 400mA         | 0.26Ω                 | 40       | 250MHz           | 2900MHz                         |     |
| LQW18AN39NG00□ | 39nH ±2%   | 100MHz                    | 400mA         | 0.26Ω                 | 40       | 250MHz           | 2800MHz                         | Kit |
| LQW18AN39NJ00□ | 39nH ±5%   | 100MHz                    | 400mA         | 0.26Ω                 | 40       | 250MHz           | 2800MHz                         |     |
| LQW18AN43NG00□ | 43nH ±2%   | 100MHz                    | 380mA         | 0.29Ω                 | 40       | 200MHz           | 2700MHz                         | Kit |
| LQW18AN43NJ00□ | 43nH ±5%   | 100MHz                    | 380mA         | 0.29Ω                 | 40       | 200MHz           | 2700MHz                         |     |
| LQW18AN47NG00□ | 47nH ±2%   | 100MHz                    | 380mA         | 0.29Ω                 | 38       | 200MHz           | 2600MHz                         | Kit |
| LQW18AN47NJ00□ | 47nH ±5%   | 100MHz                    | 380mA         | 0.29Ω                 | 38       | 200MHz           | 2600MHz                         |     |
| LQW18AN51NG00□ | 51nH ±2%   | 100MHz                    | 370mA         | 0.33Ω                 | 38       | 200MHz           | 2500MHz                         | Kit |
| LQW18AN51NJ00□ | 51nH ±5%   | 100MHz                    | 370mA         | 0.33Ω                 | 38       | 200MHz           | 2500MHz                         |     |
| LQW18AN56NG00□ | 56nH ±2%   | 100MHz                    | 360mA         | 0.35Ω                 | 38       | 200MHz           | 2400MHz                         | Kit |
| LQW18AN56NJ00□ | 56nH ±5%   | 100MHz                    | 360mA         | 0.35Ω                 | 38       | 200MHz           | 2400MHz                         |     |
| LQW18AN62NG00□ | 62nH ±2%   | 100MHz                    | 280mA         | 0.51Ω                 | 38       | 200MHz           | 2300MHz                         | Kit |
| LQW18AN62NJ00□ | 62nH ±5%   | 100MHz                    | 280mA         | 0.51Ω                 | 38       | 200MHz           | 2300MHz                         |     |
| LQW18AN68NG00□ | 68nH ±2%   | 100MHz                    | 340mA         | 0.38Ω                 | 38       | 200MHz           | 2200MHz                         | Kit |
| LQW18AN68NJ00□ | 68nH ±5%   | 100MHz                    | 340mA         | 0.38Ω                 | 38       | 200MHz           | 2200MHz                         |     |
| LQW18AN72NG00□ | 72nH ±2%   | 100MHz                    | 270mA         | 0.56Ω                 | 34       | 150MHz           | 2100MHz                         | Kit |
| LQW18AN72NJ00□ | 72nH ±5%   | 100MHz                    | 270mA         | 0.56Ω                 | 34       | 150MHz           | 2100MHz                         |     |
| LQW18AN75NG00□ | 75nH ±2%   | 100MHz                    | 270mA         | 0.56Ω                 | 34       | 150MHz           | 2050MHz                         | Kit |
| LQW18AN75NJ00□ | 75nH ±5%   | 100MHz                    | 270mA         | 0.56Ω                 | 34       | 150MHz           | 2050MHz                         |     |
| LQW18AN82NG00□ | 82nH ±2%   | 100MHz                    | 250mA         | 0.60Ω                 | 34       | 150MHz           | 2000MHz                         | Kit |
| LQW18AN82NJ00□ | 82nH ±5%   | 100MHz                    | 250mA         | 0.60Ω                 | 34       | 150MHz           | 2000MHz                         |     |
| LQW18AN91NG00□ | 91nH ±2%   | 100MHz                    | 230mA         | 0.64Ω                 | 34       | 150MHz           | 1900MHz                         | Kit |
| LQW18AN91NJ00□ | 91nH ±5%   | 100MHz                    | 230mA         | 0.64Ω                 | 34       | 150MHz           | 1900MHz                         |     |
| LQW18ANR10G00□ | 100nH ±2%  | 100MHz                    | 220mA         | 0.68Ω                 | 34       | 150MHz           | 1800MHz                         | Kit |
| LQW18ANR10J00□ | 100nH ±5%  | 100MHz                    | 220mA         | 0.68Ω                 | 34       | 150MHz           | 1800MHz                         |     |
| LQW18ANR11G00□ | 110nH ±2%  | 100MHz                    | 200mA         | 1.2Ω                  | 32       | 150MHz           | 1700MHz                         | Kit |
| LQW18ANR11J00□ | 110nH ±5%  | 100MHz                    | 200mA         | 1.2Ω                  | 32       | 150MHz           | 1700MHz                         |     |
| LQW18ANR12G00□ | 120nH ±2%  | 100MHz                    | 180mA         | 1.3Ω                  | 32       | 150MHz           | 1600MHz                         | Kit |
| LQW18ANR12J00□ | 120nH ±5%  | 100MHz                    | 180mA         | 1.3Ω                  | 32       | 150MHz           | 1600MHz                         |     |

Operating Temperature Range (Self-temperature rise is not included): -55°C~+125°C  
For reflow soldering only.

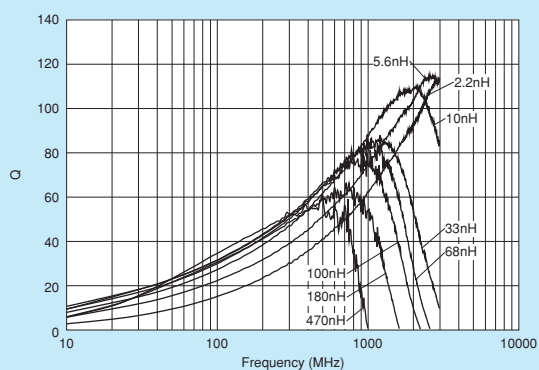
Continued on the following page. 

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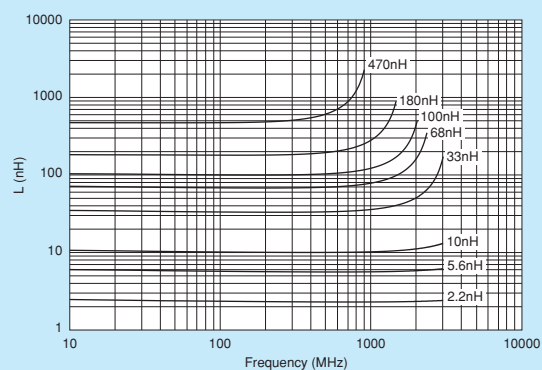
| Part Number    | Inductance     | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |     |
|----------------|----------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|-----|
| LQW18ANR13G00□ | 130nH $\pm$ 2% | 100MHz                    | 170mA         | 1.4 $\Omega$          | 32       | 150MHz           | 1450MHz                         | Kit |
| LQW18ANR13J00□ | 130nH $\pm$ 5% | 100MHz                    | 170mA         | 1.4 $\Omega$          | 32       | 150MHz           | 1450MHz                         |     |
| LQW18ANR15G00□ | 150nH $\pm$ 2% | 100MHz                    | 160mA         | 1.5 $\Omega$          | 32       | 150MHz           | 1400MHz                         | Kit |
| LQW18ANR15J00□ | 150nH $\pm$ 5% | 100MHz                    | 160mA         | 1.5 $\Omega$          | 32       | 150MHz           | 1400MHz                         |     |
| LQW18ANR16G00□ | 160nH $\pm$ 2% | 100MHz                    | 150mA         | 2.1 $\Omega$          | 32       | 150MHz           | 1350MHz                         | Kit |
| LQW18ANR16J00□ | 160nH $\pm$ 5% | 100MHz                    | 150mA         | 2.1 $\Omega$          | 32       | 150MHz           | 1350MHz                         |     |
| LQW18ANR18G00□ | 180nH $\pm$ 2% | 100MHz                    | 140mA         | 2.2 $\Omega$          | 25       | 100MHz           | 1300MHz                         | Kit |
| LQW18ANR18J00□ | 180nH $\pm$ 5% | 100MHz                    | 140mA         | 2.2 $\Omega$          | 25       | 100MHz           | 1300MHz                         |     |
| LQW18ANR20G00□ | 200nH $\pm$ 2% | 100MHz                    | 120mA         | 2.4 $\Omega$          | 25       | 100MHz           | 1250MHz                         | Kit |
| LQW18ANR20J00□ | 200nH $\pm$ 5% | 100MHz                    | 120mA         | 2.4 $\Omega$          | 25       | 100MHz           | 1250MHz                         |     |
| LQW18ANR22G00□ | 220nH $\pm$ 2% | 100MHz                    | 120mA         | 2.5 $\Omega$          | 25       | 100MHz           | 1200MHz                         | Kit |
| LQW18ANR22J00□ | 220nH $\pm$ 5% | 100MHz                    | 120mA         | 2.5 $\Omega$          | 25       | 100MHz           | 1200MHz                         |     |
| LQW18ANR27G00□ | 270nH $\pm$ 2% | 100MHz                    | 110mA         | 3.4 $\Omega$          | 30       | 100MHz           | 960MHz                          | Kit |
| LQW18ANR27J00□ | 270nH $\pm$ 5% | 100MHz                    | 110mA         | 3.4 $\Omega$          | 30       | 100MHz           | 960MHz                          |     |
| LQW18ANR33G00□ | 330nH $\pm$ 2% | 100MHz                    | 85mA          | 5.5 $\Omega$          | 30       | 100MHz           | 800MHz                          | Kit |
| LQW18ANR33J00□ | 330nH $\pm$ 5% | 100MHz                    | 85mA          | 5.5 $\Omega$          | 30       | 100MHz           | 800MHz                          |     |
| LQW18ANR39G00□ | 390nH $\pm$ 2% | 100MHz                    | 80mA          | 6.2 $\Omega$          | 30       | 100MHz           | 800MHz                          | Kit |
| LQW18ANR39J00□ | 390nH $\pm$ 5% | 100MHz                    | 80mA          | 6.2 $\Omega$          | 30       | 100MHz           | 800MHz                          |     |
| LQW18ANR47G00□ | 470nH $\pm$ 2% | 100MHz                    | 75mA          | 7.0 $\Omega$          | 30       | 100MHz           | 700MHz                          | Kit |
| LQW18ANR47J00□ | 470nH $\pm$ 5% | 100MHz                    | 75mA          | 7.0 $\Omega$          | 30       | 100MHz           | 700MHz                          |     |

Operating Temperature Range (Self-temperature rise is not included): -55°C~+125°C  
For reflow soldering only.

### ■ Q-Frequency Characteristics (Typ.)



### ■ Inductance-Frequency Characteristics (Typ.)



Continued on the following page.

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## ■ Reference Data

## LQW18AN\_00

4991A&amp;16197A

| Part Number   | Inductance (nH) | Q (Typ.) |        |        |        |        |
|---------------|-----------------|----------|--------|--------|--------|--------|
|               | Nominal         | 800MHz   | 900MHz | 1.8GHz | 2.0GHz | 2.4GHz |
| LQW18AN2N2□00 | 2.2             | 74       | 77     | 113    | 124    | 134    |
| LQW18AN3N6□00 | 3.6             | 60       | 63     | 92     | 94     | 103    |
| LQW18AN3N9□00 | 3.9             | 65       | 68     | 97     | 99     | 109    |
| LQW18AN4N3□00 | 4.3             | 71       | 74     | 105    | 107    | 118    |
| LQW18AN4N7□00 | 4.7             | 72       | 75     | 108    | 120    | 130    |
| LQW18AN5N6□00 | 5.6             | 67       | 70     | 100    | 103    | 113    |
| LQW18AN6N2□00 | 6.2             | 70       | 73     | 105    | 107    | 118    |
| LQW18AN6N8□00 | 6.8             | 78       | 82     | 115    | 117    | 127    |
| LQW18AN7N5□00 | 7.5             | 85       | 86     | 117    | 132    | 140    |
| LQW18AN8N2□00 | 8.2             | 73       | 78     | 112    | 116    | 130    |
| LQW18AN8N7□00 | 8.7             | 80       | 82     | 115    | 132    | 143    |
| LQW18AN9N1□00 | 9.1             | 86       | 88     | 124    | 142    | 155    |
| LQW18AN9N5□00 | 9.5             | 79       | 84     | 119    | 119    | 132    |
| LQW18AN10N□00 | 10              | 75       | 78     | 103    | 102    | 105    |
| LQW18AN11N□00 | 11              | 82       | 85     | 110    | 108    | 110    |
| LQW18AN12N□00 | 12              | 80       | 84     | 114    | 114    | 120    |
| LQW18AN13N□00 | 13              | 79       | 82     | 108    | 105    | 107    |
| LQW18AN15N□00 | 15              | 81       | 84     | 102    | 97     | 92     |
| LQW18AN16N□00 | 16              | 86       | 90     | 119    | 116    | 119    |
| LQW18AN18N□00 | 18              | 82       | 85     | 101    | 96     | 89     |
| LQW18AN20N□00 | 20              | 81       | 83     | 95     | 90     | 78     |
| LQW18AN22N□00 | 22              | 84       | 88     | 104    | 101    | 95     |
| LQW18AN24N□00 | 24              | 80       | 82     | 92     | 86     | 75     |
| LQW18AN27N□00 | 27              | 79       | 81     | 80     | 72     | 57     |
| LQW18AN30N□00 | 30              | 81       | 82     | 84     | 75     | 59     |
| LQW18AN33N□00 | 33              | 78       | 79     | 71     | 60     | 43     |
| LQW18AN36N□00 | 36              | 79       | 81     | 73     | 62     | 44     |
| LQW18AN39N□00 | 39              | 78       | 78     | 66     | 55     | 37     |
| LQW18AN43N□00 | 43              | 79       | 81     | 73     | 61     | 43     |
| LQW18AN47N□00 | 47              | 75       | 74     | 55     | 42     | 24     |
| LQW18AN51N□00 | 51              | 77       | 78     | 60     | 46     | 26     |
| LQW18AN56N□00 | 56              | 80       | 82     | 66     | 51     | 31     |
| LQW18AN62N□00 | 62              | 71       | 71     | 40     | 26     | 7      |
| LQW18AN68N□00 | 68              | 75       | 77     | 46     | 31     | 11     |
| LQW18AN72N□00 | 72              | 69       | 69     | 37     | 23     | 4      |
| LQW18AN75N□00 | 75              | 68       | 66     | 32     | 18     | -      |
| LQW18AN82N□00 | 82              | 66       | 64     | 26     | 12     | -      |
| LQW18AN91N□00 | 91              | 66       | 65     | 22     | 8      | -      |
| LQW18ANR10□00 | 100             | 68       | 67     | 24     | 9      | -      |
| LQW18ANR11□00 | 110             | 65       | 63     | 15     | 1      | -      |
| LQW18ANR12□00 | 120             | 64       | 62     | 11     | -      | -      |
| LQW18ANR13□00 | 130             | 62       | 59     | 7      | -      | -      |
| LQW18ANR15□00 | 150             | 60       | 57     | 3      | -      | -      |
| LQW18ANR16□00 | 160             | 59       | 54     | -      | -      | -      |
| LQW18ANR18□00 | 180             | 60       | 55     | -      | -      | -      |
| LQW18ANR20□00 | 200             | 57       | 54     | -      | -      | -      |
| LQW18ANR22□00 | 220             | 54       | 47     | -      | -      | -      |
| LQW18ANR27□00 | 270             | 52       | 46     | -      | -      | -      |
| LQW18ANR33□00 | 330             | 47       | 35     | -      | -      | -      |
| LQW18ANR39□00 | 390             | 33       | 23     | -      | -      | -      |
| LQW18ANR47□00 | 470             | 22       | 13     | -      | -      | -      |

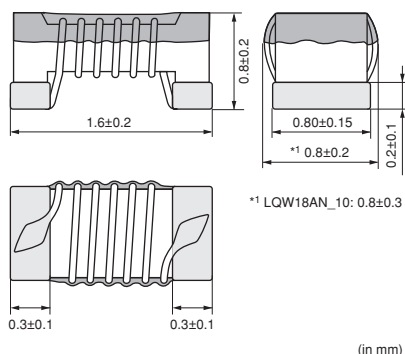
△Note • Please read rating and △CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.  
 • This catalog has only typical specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

## Wire Wound Type (Non-Magnetic Core)

# LQW18AN\_10

Series 0603/1608 (inch/mm)

Size Code 0603 (1608) in inch (in mm), High Q, Low DC Resistance Type

■ Appearance/  
Dimensions

## ■ Packaging

| Code | Packaging           | Minimum Quantity |
|------|---------------------|------------------|
| D    | ø180mm Paper Taping | 4000             |
| J    | ø330mm Paper Taping | 10000            |
| B    | Packing in Bulk     | 500              |



Refer to pages 227 to 230 for mounting information.

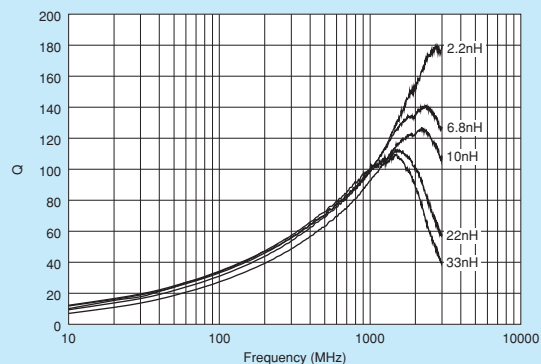
## ■ Rated Value (□: packaging code)

| Part Number    | Inductance   | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |     |
|----------------|--------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|-----|
| LQW18AN2N2D10□ | 2.2nH ±0.5nH | 100MHz                    | 1400mA        | 0.018Ω                | 25       | 250MHz           | 18000MHz                        |     |
| LQW18AN3N9C10□ | 3.9nH ±0.2nH | 100MHz                    | 1000mA        | 0.032Ω                | 38       | 250MHz           | 11000MHz                        | Kit |
| LQW18AN3N9D10□ | 3.9nH ±0.5nH | 100MHz                    | 1000mA        | 0.032Ω                | 38       | 250MHz           | 11000MHz                        |     |
| LQW18AN5N6D10□ | 5.6nH ±0.5nH | 100MHz                    | 900mA         | 0.045Ω                | 38       | 250MHz           | 10000MHz                        |     |
| LQW18AN6N8C10□ | 6.8nH ±0.2nH | 100MHz                    | 900mA         | 0.045Ω                | 38       | 250MHz           | 7000MHz                         | Kit |
| LQW18AN6N8D10□ | 6.8nH ±0.5nH | 100MHz                    | 900mA         | 0.045Ω                | 38       | 250MHz           | 7000MHz                         |     |
| LQW18AN8N2D10□ | 8.2nH ±0.5nH | 100MHz                    | 800mA         | 0.058Ω                | 38       | 250MHz           | 7000MHz                         |     |
| LQW18AN10NG10□ | 10nH ±2%     | 100MHz                    | 800mA         | 0.058Ω                | 38       | 250MHz           | 5000MHz                         | Kit |
| LQW18AN10NJ10□ | 10nH ±5%     | 100MHz                    | 800mA         | 0.058Ω                | 38       | 250MHz           | 5000MHz                         |     |
| LQW18AN12NG10□ | 12nH ±2%     | 100MHz                    | 750mA         | 0.071Ω                | 38       | 250MHz           | 5000MHz                         | Kit |
| LQW18AN12NJ10□ | 12nH ±5%     | 100MHz                    | 750mA         | 0.071Ω                | 38       | 250MHz           | 5000MHz                         |     |
| LQW18AN15NJ10□ | 15nH ±5%     | 100MHz                    | 700mA         | 0.085Ω                | 42       | 250MHz           | 4500MHz                         |     |
| LQW18AN18NG10□ | 18nH ±2%     | 100MHz                    | 700mA         | 0.085Ω                | 42       | 250MHz           | 3500MHz                         | Kit |
| LQW18AN18NJ10□ | 18nH ±5%     | 100MHz                    | 700mA         | 0.085Ω                | 42       | 250MHz           | 3500MHz                         |     |
| LQW18AN22NG10□ | 22nH ±2%     | 100MHz                    | 640mA         | 0.099Ω                | 42       | 250MHz           | 3200MHz                         | Kit |
| LQW18AN22NJ10□ | 22nH ±5%     | 100MHz                    | 640mA         | 0.099Ω                | 42       | 250MHz           | 3200MHz                         |     |
| LQW18AN27NG10□ | 27nH ±2%     | 100MHz                    | 590mA         | 0.116Ω                | 42       | 250MHz           | 2800MHz                         | Kit |
| LQW18AN27NJ10□ | 27nH ±5%     | 100MHz                    | 590mA         | 0.116Ω                | 42       | 250MHz           | 2800MHz                         |     |
| LQW18AN33NJ10□ | 33nH ±5%     | 100MHz                    | 550mA         | 0.132Ω                | 42       | 250MHz           | 2500MHz                         |     |

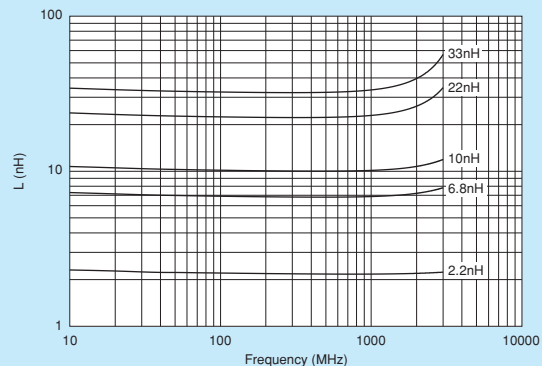
Operating Temperature Range (Self-temperature rise is not included): -55°C~+125°C  
For reflow soldering only.

Continued on the following page.

## ■ Q-Frequency Characteristics (Typ.)



## ■ Inductance-Frequency Characteristics (Typ.)



## ■ Reference Data

LQW18AN\_10

4991A&amp;16197A

| Part Number   | Inductance (nH) | Q (Typ.) |        |        |        |        |
|---------------|-----------------|----------|--------|--------|--------|--------|
|               | Nominal         | 800MHz   | 900MHz | 1.8GHz | 2.0GHz | 2.4GHz |
| LQW18AN2N2□10 | 2.2             | 72       | 75     | 114    | 125    | 134    |
| LQW18AN3N9□10 | 3.9             | 75       | 81     | 117    | 120    | 130    |
| LQW18AN5N6□10 | 5.6             | 73       | 76     | 109    | 124    | 136    |
| LQW18AN6N8□10 | 6.8             | 85       | 91     | 124    | 124    | 131    |
| LQW18AN8N2□10 | 8.2             | 86       | 89     | 130    | 152    | 171    |
| LQW18AN10N□10 | 10              | 84       | 89     | 117    | 115    | 119    |
| LQW18AN12N□10 | 12              | 88       | 95     | 125    | 123    | 128    |
| LQW18AN15N□10 | 15              | 81       | 85     | 125    | 149    | 169    |
| LQW18AN18N□10 | 18              | 90       | 96     | 112    | 106    | 101    |
| LQW18AN22N□10 | 22              | 88       | 93     | 97     | 90     | 80     |
| LQW18AN27N□10 | 27              | 83       | 88     | 85     | 77     | 63     |
| LQW18AN33N□10 | 33              | 94       | 93     | 107    | 121    | 121    |

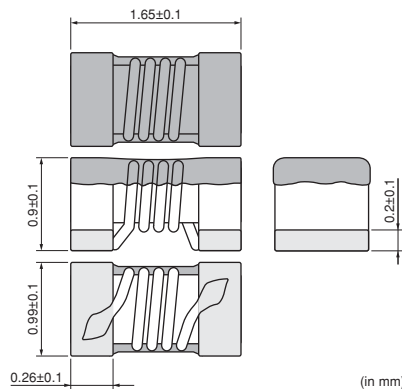
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# LQW18AN\_80

Series 0603/1608 (inch/mm)

## High Frequency Inductors with Low DC Resistance and High Current Capability

### ■ Appearance/Dimensions



(in mm)

### ■ Packaging

| Code | Packaging           | Minimum Quantity |
|------|---------------------|------------------|
| D    | ø180mm Paper Taping | 4000             |
| J    | ø330mm Paper Taping | 10000            |
| B    | Packing in Bulk     | 500              |



Refer to pages 227 to 230 for mounting information.

### ■ Rated Value (□: packaging code)

| Part Number    | Inductance   | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |         |
|----------------|--------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|---------|
| LQW18AN2N2C80□ | 2.2nH ±0.2nH | 100MHz                    | 3200mA        | 0.018Ω                | 24       | 250MHz           | 15000MHz                        | New     |
| LQW18AN2N4C80□ | 2.4nH ±0.2nH | 100MHz                    | 2400mA        | 0.026Ω                | 18       | 250MHz           | 15000MHz                        | New     |
| LQW18AN3N0C80□ | 3.0nH ±0.2nH | 100MHz                    | 670mA         | 0.17Ω                 | 13       | 250MHz           | 15000MHz                        | New     |
| LQW18AN3N9B80□ | 3.9nH ±0.1nH | 100MHz                    | 2200mA        | 0.028Ω                | 30       | 250MHz           | 10000MHz                        | New     |
| LQW18AN3N9C80□ | 3.9nH ±0.2nH | 100MHz                    | 2200mA        | 0.028Ω                | 30       | 250MHz           | 10000MHz                        | New     |
| LQW18AN4N1B80□ | 4.1nH ±0.1nH | 100MHz                    | 2200mA        | 0.028Ω                | 30       | 250MHz           | 10000MHz                        | New     |
| LQW18AN4N1C80□ | 4.1nH ±0.2nH | 100MHz                    | 2200mA        | 0.028Ω                | 30       | 250MHz           | 10000MHz                        | New     |
| LQW18AN4N2B80□ | 4.2nH ±0.1nH | 100MHz                    | 2200mA        | 0.028Ω                | 30       | 250MHz           | 10000MHz                        | New     |
| LQW18AN4N2C80□ | 4.2nH ±0.2nH | 100MHz                    | 2200mA        | 0.028Ω                | 30       | 250MHz           | 10000MHz                        | New     |
| LQW18AN4N3B80□ | 4.3nH ±0.1nH | 100MHz                    | 2100mA        | 0.036Ω                | 35       | 250MHz           | 11600MHz                        | New Kit |
| LQW18AN4N3C80□ | 4.3nH ±0.2nH | 100MHz                    | 2100mA        | 0.036Ω                | 35       | 250MHz           | 11600MHz                        | New     |
| LQW18AN4N7B80□ | 4.7nH ±0.1nH | 100MHz                    | 1500mA        | 0.054Ω                | 25       | 250MHz           | 10400MHz                        | New Kit |
| LQW18AN4N7C80□ | 4.7nH ±0.2nH | 100MHz                    | 1500mA        | 0.054Ω                | 25       | 250MHz           | 10400MHz                        | New     |
| LQW18AN4N9B80□ | 4.9nH ±0.1nH | 100MHz                    | 1200mA        | 0.081Ω                | 23       | 250MHz           | 7300MHz                         | New Kit |
| LQW18AN4N9C80□ | 4.9nH ±0.2nH | 100MHz                    | 1200mA        | 0.081Ω                | 23       | 250MHz           | 7300MHz                         | New     |
| LQW18AN5N6C80□ | 5.6nH ±0.2nH | 100MHz                    | 1900mA        | 0.04Ω                 | 38       | 250MHz           | 6650MHz                         | New     |
| LQW18AN6N0C80□ | 6.0nH ±0.2nH | 100MHz                    | 1900mA        | 0.04Ω                 | 40       | 250MHz           | 6650MHz                         | New     |
| LQW18AN6N5C80□ | 6.5nH ±0.2nH | 100MHz                    | 1900mA        | 0.04Ω                 | 40       | 250MHz           | 6650MHz                         | New     |
| LQW18AN6N8C80□ | 6.8nH ±0.2nH | 100MHz                    | 1900mA        | 0.04Ω                 | 40       | 250MHz           | 6650MHz                         | New     |
| LQW18AN7N2C80□ | 7.2nH ±0.2nH | 100MHz                    | 1900mA        | 0.04Ω                 | 38       | 250MHz           | 6650MHz                         | New     |
| LQW18AN7N5C80□ | 7.5nH ±0.2nH | 100MHz                    | 1500mA        | 0.048Ω                | 35       | 250MHz           | 7000MHz                         | New     |
| LQW18AN8N2C80□ | 8.2nH ±0.2nH | 100MHz                    | 1600mA        | 0.052Ω                | 38       | 250MHz           | 4750MHz                         | New     |
| LQW18AN8N4C80□ | 8.4nH ±0.2nH | 100MHz                    | 1600mA        | 0.052Ω                | 38       | 250MHz           | 4750MHz                         | New     |
| LQW18AN8N7C80□ | 8.7nH ±0.2nH | 100MHz                    | 1600mA        | 0.052Ω                | 38       | 250MHz           | 4750MHz                         | New     |
| LQW18AN9N1C80□ | 9.1nH ±0.2nH | 100MHz                    | 1600mA        | 0.052Ω                | 38       | 250MHz           | 4750MHz                         | New     |
| LQW18AN9N5C80□ | 9.5nH ±0.2nH | 100MHz                    | 1600mA        | 0.052Ω                | 38       | 250MHz           | 4750MHz                         | New     |
| LQW18AN9N9C80□ | 9.9nH ±0.2nH | 100MHz                    | 1600mA        | 0.052Ω                | 38       | 250MHz           | 4750MHz                         | New     |
| LQW18AN10NG80□ | 10nH ±2%     | 100MHz                    | 1600mA        | 0.052Ω                | 38       | 250MHz           | 4750MHz                         | New     |
| LQW18AN10NJ80□ | 10nH ±5%     | 100MHz                    | 1600mA        | 0.052Ω                | 38       | 250MHz           | 4750MHz                         | New     |
| LQW18AN11NG80□ | 11nH ±2%     | 100MHz                    | 1600mA        | 0.052Ω                | 40       | 250MHz           | 4750MHz                         | New     |
| LQW18AN11NJ80□ | 11nH ±5%     | 100MHz                    | 1600mA        | 0.052Ω                | 40       | 250MHz           | 4750MHz                         | New     |
| LQW18AN12NG80□ | 12nH ±2%     | 100MHz                    | 1500mA        | 0.064Ω                | 37       | 250MHz           | 5000MHz                         | New     |

Operating Temperature Range (Self-temperature rise is not included): -55°C~+125°C

For reflow soldering only.

Continued on the following page.

⚠Note • Please read rating and ⚠CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.  
 • This catalog has only typical specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

| Part Number    | Inductance | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |         |
|----------------|------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|---------|
| LQW18AN12NJ80□ | 12nH ±5%   | 100MHz                    | 1500mA        | 0.064Ω                | 37       | 250MHz           | 5000MHz                         | New     |
| LQW18AN13NG80□ | 13nH ±2%   | 100MHz                    | 1500mA        | 0.064Ω                | 37       | 250MHz           | 5000MHz                         | New     |
| LQW18AN13NJ80□ | 13nH ±5%   | 100MHz                    | 1500mA        | 0.064Ω                | 37       | 250MHz           | 5000MHz                         | New     |
| LQW18AN15NG80□ | 15nH ±2%   | 100MHz                    | 1400mA        | 0.075Ω                | 38       | 250MHz           | 4600MHz                         | New     |
| LQW18AN15NJ80□ | 15nH ±5%   | 100MHz                    | 1400mA        | 0.075Ω                | 38       | 250MHz           | 4600MHz                         | New     |
| LQW18AN16NG80□ | 16nH ±2%   | 100MHz                    | 1400mA        | 0.075Ω                | 40       | 250MHz           | 4600MHz                         | New     |
| LQW18AN16NJ80□ | 16nH ±5%   | 100MHz                    | 1400mA        | 0.075Ω                | 40       | 250MHz           | 4600MHz                         | New     |
| LQW18AN17NG80□ | 17nH ±2%   | 100MHz                    | 1400mA        | 0.075Ω                | 40       | 250MHz           | 4600MHz                         | New     |
| LQW18AN17NJ80□ | 17nH ±5%   | 100MHz                    | 1400mA        | 0.075Ω                | 40       | 250MHz           | 4600MHz                         | New     |
| LQW18AN18NG80□ | 18nH ±2%   | 100MHz                    | 1400mA        | 0.075Ω                | 40       | 250MHz           | 4600MHz                         | New     |
| LQW18AN18NJ80□ | 18nH ±5%   | 100MHz                    | 1400mA        | 0.075Ω                | 40       | 250MHz           | 4600MHz                         | New     |
| LQW18AN19NG80□ | 19nH ±2%   | 100MHz                    | 1400mA        | 0.075Ω                | 40       | 250MHz           | 4600MHz                         | New     |
| LQW18AN19NJ80□ | 19nH ±5%   | 100MHz                    | 1400mA        | 0.075Ω                | 40       | 250MHz           | 4600MHz                         | New     |
| LQW18AN22NG80□ | 22nH ±2%   | 100MHz                    | 1300mA        | 0.086Ω                | 40       | 250MHz           | 3450MHz                         | New     |
| LQW18AN22NJ80□ | 22nH ±5%   | 100MHz                    | 1300mA        | 0.086Ω                | 40       | 250MHz           | 3450MHz                         | New     |
| LQW18AN23NG80□ | 23nH ±2%   | 100MHz                    | 1300mA        | 0.086Ω                | 40       | 250MHz           | 3450MHz                         | New     |
| LQW18AN23NJ80□ | 23nH ±5%   | 100MHz                    | 1300mA        | 0.086Ω                | 40       | 250MHz           | 3450MHz                         | New     |
| LQW18AN24NG80□ | 24nH ±2%   | 100MHz                    | 1300mA        | 0.086Ω                | 40       | 250MHz           | 3450MHz                         | New     |
| LQW18AN24NJ80□ | 24nH ±5%   | 100MHz                    | 1300mA        | 0.086Ω                | 40       | 250MHz           | 3450MHz                         | New     |
| LQW18AN25NG80□ | 25nH ±2%   | 100MHz                    | 1200mA        | 0.098Ω                | 40       | 250MHz           | 3600MHz                         | New     |
| LQW18AN25NJ80□ | 25nH ±5%   | 100MHz                    | 1200mA        | 0.098Ω                | 40       | 250MHz           | 3600MHz                         | New     |
| LQW18AN27NG80□ | 27nH ±2%   | 100MHz                    | 1200mA        | 0.098Ω                | 40       | 250MHz           | 3600MHz                         | New     |
| LQW18AN27NJ80□ | 27nH ±5%   | 100MHz                    | 1200mA        | 0.098Ω                | 40       | 250MHz           | 3600MHz                         | New     |
| LQW18AN28NG80□ | 28nH ±2%   | 100MHz                    | 1200mA        | 0.098Ω                | 40       | 250MHz           | 3600MHz                         | New     |
| LQW18AN28NJ80□ | 28nH ±5%   | 100MHz                    | 1200mA        | 0.098Ω                | 40       | 250MHz           | 3600MHz                         | New     |
| LQW18AN30NG80□ | 30nH ±2%   | 100MHz                    | 1100mA        | 0.12Ω                 | 40       | 250MHz           | 2880MHz                         | New Kit |
| LQW18AN30NJ80□ | 30nH ±5%   | 100MHz                    | 1100mA        | 0.12Ω                 | 40       | 250MHz           | 2880MHz                         | New     |
| LQW18AN31NG80□ | 31nH ±2%   | 100MHz                    | 1100mA        | 0.11Ω                 | 40       | 250MHz           | 3150MHz                         | New     |
| LQW18AN31NJ80□ | 31nH ±5%   | 100MHz                    | 1100mA        | 0.11Ω                 | 40       | 250MHz           | 3150MHz                         | New     |
| LQW18AN33NG80□ | 33nH ±2%   | 100MHz                    | 1100mA        | 0.11Ω                 | 40       | 250MHz           | 3150MHz                         | New     |
| LQW18AN33NJ80□ | 33nH ±5%   | 100MHz                    | 1100mA        | 0.11Ω                 | 40       | 250MHz           | 3150MHz                         | New     |
| LQW18AN34NG80□ | 34nH ±2%   | 100MHz                    | 1050mA        | 0.15Ω                 | 40       | 250MHz           | 3000MHz                         | New     |
| LQW18AN34NJ80□ | 34nH ±5%   | 100MHz                    | 1050mA        | 0.15Ω                 | 40       | 250MHz           | 3000MHz                         | New     |
| LQW18AN36NG80□ | 36nH ±2%   | 100MHz                    | 910mA         | 0.20Ω                 | 37       | 250MHz           | 3000MHz                         | New Kit |
| LQW18AN36NJ80□ | 36nH ±5%   | 100MHz                    | 910mA         | 0.20Ω                 | 37       | 250MHz           | 3000MHz                         | New     |
| LQW18AN37NG80□ | 37nH ±2%   | 100MHz                    | 910mA         | 0.20Ω                 | 37       | 250MHz           | 3000MHz                         | New     |
| LQW18AN37NJ80□ | 37nH ±5%   | 100MHz                    | 910mA         | 0.20Ω                 | 37       | 250MHz           | 3000MHz                         | New     |
| LQW18AN39NG80□ | 39nH ±2%   | 100MHz                    | 1000mA        | 0.16Ω                 | 40       | 250MHz           | 3280MHz                         | New Kit |
| LQW18AN39NJ80□ | 39nH ±5%   | 100MHz                    | 1000mA        | 0.16Ω                 | 40       | 250MHz           | 3280MHz                         | New     |
| LQW18AN41NG80□ | 41nH ±2%   | 100MHz                    | 1000mA        | 0.16Ω                 | 40       | 250MHz           | 3280MHz                         | New     |
| LQW18AN41NJ80□ | 41nH ±5%   | 100MHz                    | 1000mA        | 0.16Ω                 | 40       | 250MHz           | 3280MHz                         | New     |
| LQW18AN43NG80□ | 43nH ±2%   | 100MHz                    | 840mA         | 0.21Ω                 | 40       | 250MHz           | 2780MHz                         | New Kit |
| LQW18AN43NJ80□ | 43nH ±5%   | 100MHz                    | 840mA         | 0.21Ω                 | 40       | 250MHz           | 2780MHz                         | New     |
| LQW18AN44NG80□ | 44nH ±2%   | 100MHz                    | 840mA         | 0.21Ω                 | 40       | 250MHz           | 2780MHz                         | New     |
| LQW18AN44NJ80□ | 44nH ±5%   | 100MHz                    | 840mA         | 0.21Ω                 | 40       | 250MHz           | 2780MHz                         | New     |
| LQW18AN47NG80□ | 47nH ±2%   | 100MHz                    | 830mA         | 0.23Ω                 | 32       | 200MHz           | 2700MHz                         | New Kit |
| LQW18AN47NJ80□ | 47nH ±5%   | 100MHz                    | 830mA         | 0.23Ω                 | 32       | 200MHz           | 2700MHz                         | New     |

Operating Temperature Range (Self-temperature rise is not included): -55°C~+125°C  
For reflow soldering only.

Continued on the following page. 

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• This catalog has only typical specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

| Part Number    | Inductance | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |         |
|----------------|------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|---------|
| LQW18AN48NG80□ | 48nH ±2%   | 100MHz                    | 830mA         | 0.23Ω                 | 32       | 200MHz           | 2700MHz                         | New     |
| LQW18AN48NJ80□ | 48nH ±5%   | 100MHz                    | 830mA         | 0.23Ω                 | 32       | 200MHz           | 2700MHz                         | New     |
| LQW18AN51NG80□ | 51nH ±2%   | 100MHz                    | 830mA         | 0.23Ω                 | 32       | 200MHz           | 2700MHz                         | New Kit |
| LQW18AN51NJ80□ | 51nH ±5%   | 100MHz                    | 830mA         | 0.23Ω                 | 32       | 200MHz           | 2700MHz                         | New     |
| LQW18AN52NG80□ | 52nH ±2%   | 100MHz                    | 750mA         | 0.27Ω                 | 35       | 200MHz           | 2750MHz                         | New     |
| LQW18AN52NJ80□ | 52nH ±5%   | 100MHz                    | 750mA         | 0.27Ω                 | 35       | 200MHz           | 2750MHz                         | New     |
| LQW18AN56NG80□ | 56nH ±2%   | 100MHz                    | 770mA         | 0.26Ω                 | 38       | 200MHz           | 2600MHz                         | New Kit |
| LQW18AN56NJ80□ | 56nH ±5%   | 100MHz                    | 770mA         | 0.26Ω                 | 38       | 200MHz           | 2600MHz                         | New     |
| LQW18AN58NG80□ | 58nH ±2%   | 100MHz                    | 700mA         | 0.30Ω                 | 35       | 200MHz           | 2400MHz                         | New     |
| LQW18AN58NJ80□ | 58nH ±5%   | 100MHz                    | 700mA         | 0.30Ω                 | 35       | 200MHz           | 2400MHz                         | New     |
| LQW18AN68NG80□ | 68nH ±2%   | 100MHz                    | 630mA         | 0.38Ω                 | 37       | 200MHz           | 2380MHz                         | New Kit |
| LQW18AN68NJ80□ | 68nH ±5%   | 100MHz                    | 630mA         | 0.38Ω                 | 37       | 200MHz           | 2380MHz                         | New     |
| LQW18AN69NG80□ | 69nH ±2%   | 100MHz                    | 630mA         | 0.38Ω                 | 37       | 200MHz           | 2380MHz                         | New     |
| LQW18AN69NJ80□ | 69nH ±5%   | 100MHz                    | 630mA         | 0.38Ω                 | 37       | 200MHz           | 2380MHz                         | New     |
| LQW18AN72NG80□ | 72nH ±2%   | 100MHz                    | 560mA         | 0.47Ω                 | 34       | 150MHz           | 2330MHz                         | New Kit |
| LQW18AN72NJ80□ | 72nH ±5%   | 100MHz                    | 560mA         | 0.47Ω                 | 34       | 150MHz           | 2330MHz                         | New     |
| LQW18AN73NG80□ | 73nH ±2%   | 100MHz                    | 590mA         | 0.41Ω                 | 28       | 150MHz           | 2280MHz                         | New     |
| LQW18AN73NJ80□ | 73nH ±5%   | 100MHz                    | 590mA         | 0.41Ω                 | 28       | 150MHz           | 2280MHz                         | New     |
| LQW18AN75NG80□ | 75nH ±2%   | 100MHz                    | 590mA         | 0.41Ω                 | 28       | 150MHz           | 2280MHz                         | New Kit |
| LQW18AN75NJ80□ | 75nH ±5%   | 100MHz                    | 590mA         | 0.41Ω                 | 28       | 150MHz           | 2280MHz                         | New     |
| LQW18AN78NG80□ | 78nH ±2%   | 100MHz                    | 590mA         | 0.41Ω                 | 28       | 150MHz           | 2280MHz                         | New     |
| LQW18AN78NJ80□ | 78nH ±5%   | 100MHz                    | 590mA         | 0.41Ω                 | 28       | 150MHz           | 2280MHz                         | New     |
| LQW18AN82NG80□ | 82nH ±2%   | 100MHz                    | 550mA         | 0.5Ω                  | 34       | 150MHz           | 2230MHz                         | New Kit |
| LQW18AN82NJ80□ | 82nH ±5%   | 100MHz                    | 550mA         | 0.5Ω                  | 34       | 150MHz           | 2230MHz                         | New     |
| LQW18AN83NG80□ | 83nH ±2%   | 100MHz                    | 550mA         | 0.5Ω                  | 34       | 150MHz           | 2230MHz                         | New     |
| LQW18AN83NJ80□ | 83nH ±5%   | 100MHz                    | 550mA         | 0.5Ω                  | 34       | 150MHz           | 2230MHz                         | New     |
| LQW18AN91NG80□ | 91nH ±2%   | 100MHz                    | 520mA         | 0.54Ω                 | 33       | 150MHz           | 1900MHz                         | New Kit |
| LQW18AN91NJ80□ | 91nH ±5%   | 100MHz                    | 520mA         | 0.54Ω                 | 33       | 150MHz           | 1900MHz                         | New     |
| LQW18AN94NG80□ | 94nH ±2%   | 100MHz                    | 490mA         | 0.63Ω                 | 34       | 150MHz           | 1750MHz                         | New     |
| LQW18AN94NJ80□ | 94nH ±5%   | 100MHz                    | 490mA         | 0.63Ω                 | 34       | 150MHz           | 1750MHz                         | New     |
| LQW18ANR10G80□ | 100nH ±2%  | 100MHz                    | 490mA         | 0.63Ω                 | 34       | 150MHz           | 1750MHz                         | New Kit |
| LQW18ANR10J80□ | 100nH ±5%  | 100MHz                    | 490mA         | 0.63Ω                 | 34       | 150MHz           | 1750MHz                         | New     |
| LQW18ANR11G80□ | 110nH ±2%  | 100MHz                    | 450mA         | 0.7Ω                  | 32       | 150MHz           | 1730MHz                         | New Kit |
| LQW18ANR11J80□ | 110nH ±5%  | 100MHz                    | 450mA         | 0.7Ω                  | 32       | 150MHz           | 1730MHz                         | New     |
| LQW18ANR12G80□ | 120nH ±2%  | 100MHz                    | 450mA         | 0.72Ω                 | 32       | 150MHz           | 1650MHz                         | New Kit |
| LQW18ANR12J80□ | 120nH ±5%  | 100MHz                    | 450mA         | 0.72Ω                 | 32       | 150MHz           | 1650MHz                         | New     |
| LQW18ANR15G80□ | 150nH ±2%  | 100MHz                    | 420mA         | 0.87Ω                 | 28       | 150MHz           | 1580MHz                         | New Kit |
| LQW18ANR15J80□ | 150nH ±5%  | 100MHz                    | 420mA         | 0.87Ω                 | 28       | 150MHz           | 1580MHz                         | New     |
| LQW18ANR18G80□ | 180nH ±2%  | 100MHz                    | 310mA         | 1.65Ω                 | 25       | 100MHz           | 1380MHz                         | New Kit |
| LQW18ANR18J80□ | 180nH ±5%  | 100MHz                    | 310mA         | 1.65Ω                 | 25       | 100MHz           | 1380MHz                         | New     |
| LQW18ANR20G80□ | 200nH ±2%  | 100MHz                    | 290mA         | 1.74Ω                 | 25       | 100MHz           | 1350MHz                         | New Kit |
| LQW18ANR20J80□ | 200nH ±5%  | 100MHz                    | 290mA         | 1.74Ω                 | 25       | 100MHz           | 1350MHz                         | New     |
| LQW18ANR21G80□ | 210nH ±2%  | 100MHz                    | 280mA         | 1.98Ω                 | 27       | 100MHz           | 1330MHz                         | New Kit |
| LQW18ANR21J80□ | 210nH ±5%  | 100MHz                    | 280mA         | 1.98Ω                 | 27       | 100MHz           | 1330MHz                         | New     |
| LQW18ANR22G80□ | 220nH ±2%  | 100MHz                    | 280mA         | 2.08Ω                 | 25       | 100MHz           | 1330MHz                         | New Kit |
| LQW18ANR22J80□ | 220nH ±5%  | 100MHz                    | 280mA         | 2.08Ω                 | 25       | 100MHz           | 1330MHz                         | New     |
| LQW18ANR25G80□ | 250nH ±2%  | 100MHz                    | 250mA         | 2.28Ω                 | 24       | 100MHz           | 1330MHz                         | New Kit |

Operating Temperature Range (Self-temperature rise is not included): -55°C~+125°C

For reflow soldering only.

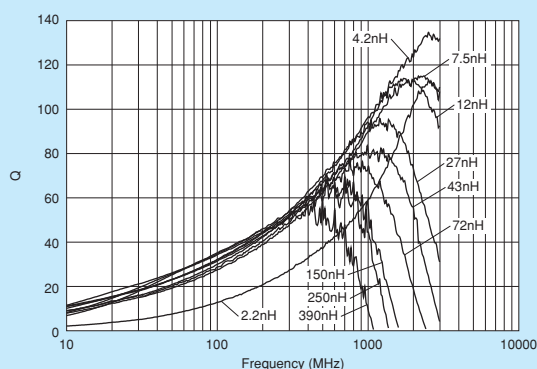
Continued on the following page. 

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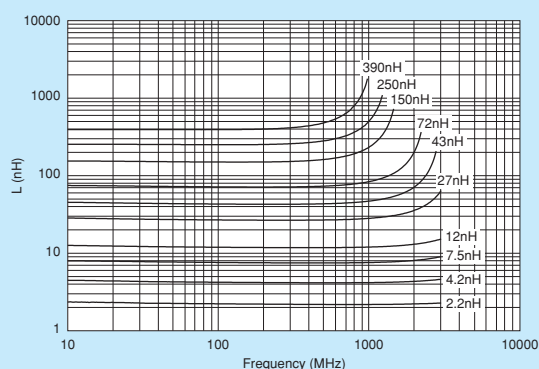
| Part Number    | Inductance | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |         |
|----------------|------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|---------|
| LQW18ANR25J80□ | 250nH ±5%  | 100MHz                    | 250mA         | 2.28Ω                 | 24       | 100MHz           | 1330MHz                         | New     |
| LQW18ANR27G80□ | 270nH ±2%  | 100MHz                    | 260mA         | 2.42Ω                 | 24       | 100MHz           | 1250MHz                         | New Kit |
| LQW18ANR27J80□ | 270nH ±5%  | 100MHz                    | 260mA         | 2.42Ω                 | 24       | 100MHz           | 1250MHz                         | New     |
| LQW18ANR30G80□ | 300nH ±2%  | 100MHz                    | 220mA         | 3.12Ω                 | 25       | 100MHz           | 1200MHz                         | New Kit |
| LQW18ANR30J80□ | 300nH ±5%  | 100MHz                    | 220mA         | 3.12Ω                 | 25       | 100MHz           | 1200MHz                         | New     |
| LQW18ANR33G80□ | 330nH ±2%  | 100MHz                    | 190mA         | 3.84Ω                 | 25       | 100MHz           | 1100MHz                         | New Kit |
| LQW18ANR33J80□ | 330nH ±5%  | 100MHz                    | 190mA         | 3.84Ω                 | 25       | 100MHz           | 1100MHz                         | New     |
| LQW18ANR36G80□ | 360nH ±2%  | 100MHz                    | 190mA         | 3.98Ω                 | 25       | 100MHz           | 1050MHz                         | New Kit |
| LQW18ANR36J80□ | 360nH ±5%  | 100MHz                    | 190mA         | 3.98Ω                 | 25       | 100MHz           | 1050MHz                         | New     |
| LQW18ANR39G80□ | 390nH ±2%  | 100MHz                    | 190mA         | 4.23Ω                 | 25       | 100MHz           | 1100MHz                         | New Kit |
| LQW18ANR39J80□ | 390nH ±5%  | 100MHz                    | 190mA         | 4.23Ω                 | 25       | 100MHz           | 1100MHz                         | New     |

Operating Temperature Range (Self-temperature rise is not included): -55°C~+125°C  
For reflow soldering only.

### ■ Q-Frequency Characteristics (Typ.)



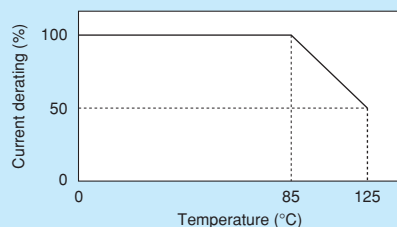
### ■ Inductance-Frequency Characteristics (Typ.)



### ■ Derating of Rated Current

In operating temperature exceeding +85°C, derating of current is necessary for LQW18AN\_80 series.  
Please apply the derating curve shown in chart according to the operating temperature.

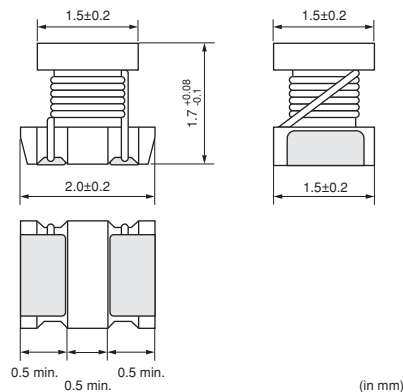
Derating of Rated Current



## Wire Wound Type (Non-Magnetic Core)

**LQW2BHN\_03** Series 0805/2015 (inch/mm)

Size Code 0805 (2015) in inch (in mm), Wound Type

■ Appearance/  
Dimensions

## ■ Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| L    | ø180mm Embossed Taping | 2000             |
| K    | ø330mm Embossed Taping | 7500             |



Refer to pages 227 to 230 for mounting information.

## ■ Rated Value (□: packaging code)

| Part Number    | Inductance   | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |     |
|----------------|--------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|-----|
| LQW2BHN3N3D03□ | 3.3nH ±0.5nH | 100MHz                    | 910mA         | 0.05Ω                 | 10       | 250MHz           | 6000MHz                         |     |
| LQW2BHN6N8D03□ | 6.8nH ±0.5nH | 100MHz                    | 680mA         | 0.11Ω                 | 20       | 250MHz           | 5400MHz                         |     |
| LQW2BHN8N2D03□ | 8.2nH ±0.5nH | 100MHz                    | 630mA         | 0.12Ω                 | 20       | 250MHz           | 3900MHz                         |     |
| LQW2BHN10NJ03□ | 10nH ±5%     | 100MHz                    | 1320mA        | 0.03Ω                 | 30       | 250MHz           | 3300MHz                         |     |
| LQW2BHN12NJ03□ | 12nH ±5%     | 100MHz                    | 680mA         | 0.11Ω                 | 30       | 250MHz           | 3200MHz                         |     |
| LQW2BHN15NJ03□ | 15nH ±5%     | 100MHz                    | 630mA         | 0.12Ω                 | 30       | 250MHz           | 2700MHz                         |     |
| LQW2BHN18NJ03□ | 18nH ±5%     | 100MHz                    | 690mA         | 0.10Ω                 | 30       | 250MHz           | 2600MHz                         |     |
| LQW2BHN22NJ03□ | 22nH ±5%     | 100MHz                    | 720mA         | 0.09Ω                 | 30       | 250MHz           | 2100MHz                         |     |
| LQW2BHN27NJ03□ | 27nH ±5%     | 100MHz                    | 540mA         | 0.17Ω                 | 40       | 250MHz           | 2300MHz                         |     |
| LQW2BHN33NG03□ | 33nH ±2%     | 100MHz                    | 570mA         | 0.15Ω                 | 40       | 250MHz           | 1900MHz                         | Kit |
| LQW2BHN33NJ03□ | 33nH ±5%     | 100MHz                    | 570mA         | 0.15Ω                 | 40       | 250MHz           | 1900MHz                         |     |
| LQW2BHN39NG03□ | 39nH ±2%     | 100MHz                    | 730mA         | 0.09Ω                 | 40       | 250MHz           | 1700MHz                         | Kit |
| LQW2BHN39NJ03□ | 39nH ±5%     | 100MHz                    | 730mA         | 0.09Ω                 | 40       | 250MHz           | 1700MHz                         |     |
| LQW2BHN47NG03□ | 47nH ±2%     | 100MHz                    | 450mA         | 0.23Ω                 | 40       | 200MHz           | 1600MHz                         | Kit |
| LQW2BHN47NJ03□ | 47nH ±5%     | 100MHz                    | 450mA         | 0.23Ω                 | 40       | 200MHz           | 1600MHz                         |     |
| LQW2BHN56NG03□ | 56nH ±2%     | 100MHz                    | 430mA         | 0.26Ω                 | 40       | 200MHz           | 1500MHz                         | Kit |
| LQW2BHN56NJ03□ | 56nH ±5%     | 100MHz                    | 430mA         | 0.26Ω                 | 40       | 200MHz           | 1500MHz                         |     |
| LQW2BHN68NG03□ | 68nH ±2%     | 100MHz                    | 460mA         | 0.23Ω                 | 40       | 200MHz           | 1200MHz                         | Kit |
| LQW2BHN68NJ03□ | 68nH ±5%     | 100MHz                    | 460mA         | 0.23Ω                 | 40       | 200MHz           | 1200MHz                         |     |
| LQW2BHN82NG03□ | 82nH ±2%     | 100MHz                    | 320mA         | 0.42Ω                 | 40       | 150MHz           | 1100MHz                         | Kit |
| LQW2BHN82NJ03□ | 82nH ±5%     | 100MHz                    | 320mA         | 0.42Ω                 | 40       | 150MHz           | 1100MHz                         |     |
| LQW2BHNR10G03□ | 100nH ±2%    | 100MHz                    | 270mA         | 0.55Ω                 | 35       | 150MHz           | 900MHz                          | Kit |
| LQW2BHNR10J03□ | 100nH ±5%    | 100MHz                    | 350mA         | 0.38Ω                 | 40       | 150MHz           | 900MHz                          |     |
| LQW2BHNR12G03□ | 120nH ±2%    | 100MHz                    | 320mA         | 0.40Ω                 | 40       | 150MHz           | 750MHz                          | Kit |
| LQW2BHNR12J03□ | 120nH ±5%    | 100MHz                    | 320mA         | 0.40Ω                 | 40       | 150MHz           | 750MHz                          |     |
| LQW2BHNR15G03□ | 150nH ±2%    | 100MHz                    | 260mA         | 0.68Ω                 | 30       | 150MHz           | 350MHz                          | Kit |
| LQW2BHNR15J03□ | 150nH ±5%    | 100MHz                    | 390mA         | 0.47Ω                 | 30       | 150MHz           | 350MHz                          |     |
| LQW2BHNR18G03□ | 180nH ±2%    | 100MHz                    | 250mA         | 0.71Ω                 | 35       | 100MHz           | 700MHz                          | Kit |
| LQW2BHNR18J03□ | 180nH ±5%    | 100MHz                    | 250mA         | 0.71Ω                 | 35       | 100MHz           | 700MHz                          |     |
| LQW2BHNR22G03□ | 220nH ±2%    | 100MHz                    | 240mA         | 0.70Ω                 | 35       | 100MHz           | 500MHz                          | Kit |
| LQW2BHNR22J03□ | 220nH ±5%    | 100MHz                    | 240mA         | 0.70Ω                 | 35       | 100MHz           | 500MHz                          |     |
| LQW2BHNR27J03□ | 270nH ±5%    | 10MHz                     | 190mA         | 2.00Ω                 | 15       | 25.2MHz          | 550MHz                          |     |
| LQW2BHNR27K03□ | 270nH ±10%   | 10MHz                     | 190mA         | 2.00Ω                 | 15       | 25.2MHz          | 550MHz                          | Kit |

Operating Temperature Range (Self-temperature rise is not included): -40°C~+85°C

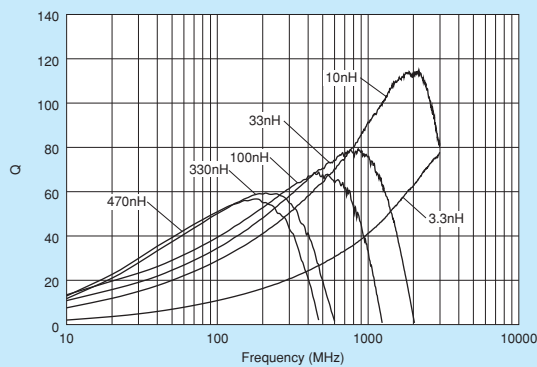
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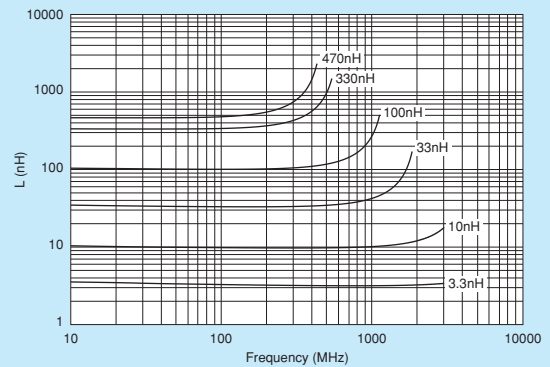
| Part Number   | Inductance | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |     |
|---------------|------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|-----|
| LQW2BHN33J03□ | 330nH ±5%  | 10MHz                     | 180mA         | 2.20Ω                 | 15       | 25.2MHz          | 500MHz                          |     |
| LQW2BHN33K03□ | 330nH ±10% | 10MHz                     | 180mA         | 2.20Ω                 | 15       | 25.2MHz          | 500MHz                          | Kit |
| LQW2BHN39J03□ | 390nH ±5%  | 10MHz                     | 170mA         | 2.50Ω                 | 15       | 25.2MHz          | 400MHz                          |     |
| LQW2BHN39K03□ | 390nH ±10% | 10MHz                     | 170mA         | 2.50Ω                 | 15       | 25.2MHz          | 400MHz                          | Kit |
| LQW2BHN47J03□ | 470nH ±5%  | 10MHz                     | 160mA         | 2.80Ω                 | 15       | 25.2MHz          | 350MHz                          |     |
| LQW2BHN47K03□ | 470nH ±10% | 10MHz                     | 160mA         | 2.80Ω                 | 15       | 25.2MHz          | 350MHz                          | Kit |

Operating Temperature Range (Self-temperature rise is not included): -40°C~+85°C

### Q-Frequency Characteristics (Typ.)



### Inductance-Frequency Characteristics (Typ.)



### Reference Data

#### LQW2BHN\_03

4991A&amp;16197A

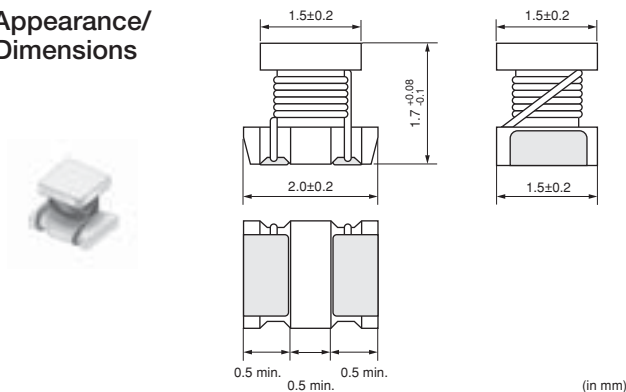
| Part Number   | Inductance (nH) | Q (Typ.) |        |        |        |        |
|---------------|-----------------|----------|--------|--------|--------|--------|
|               | 100MHz          | 800MHz   | 900MHz | 1.8GHz | 2.0GHz | 2.4GHz |
| LQW2BHN3N3□03 | 3.3             | 55       | 58     | 85     | 88     | 98     |
| LQW2BHN6N8□03 | 6.8             | 51       | 55     | 77     | 78     | 80     |
| LQW2BHN8N2□03 | 8.2             | 60       | 64     | 88     | 88     | 88     |
| LQW2BHN10N□03 | 10              | 81       | 86     | 114    | 110    | 100    |
| LQW2BHN12N□03 | 12              | 77       | 81     | 88     | 83     | 77     |
| LQW2BHN15N□03 | 15              | 76       | 80     | 75     | 66     | 50     |
| LQW2BHN18N□03 | 18              | 81       | 83     | 70     | 58     | 39     |
| LQW2BHN22N□03 | 22              | 85       | 87     | 47     | 31     | 8      |
| LQW2BHN27N□03 | 27              | 77       | 79     | 43     | 28     | 6      |
| LQW2BHN33N□03 | 33              | 76       | 77     | 15     | 1      | -      |
| LQW2BHN39N□03 | 39              | 83       | 76     | -      | -      | -      |
| LQW2BHN47N□03 | 47              | 70       | 64     | -      | -      | -      |
| LQW2BHN56N□03 | 56              | 73       | 67     | -      | -      | -      |
| LQW2BHN68N□03 | 68              | 62       | 51     | -      | -      | -      |
| LQW2BHN82N□03 | 82              | 64       | 56     | -      | -      | -      |
| LQW2BHN10□03  | 100             | 50       | 37     | -      | -      | -      |
| LQW2BHN12□03  | 120             | 31       | 15     | -      | -      | -      |
| LQW2BHN15□03  | 150             | 21       | 4      | -      | -      | -      |
| LQW2BHN18□03  | 180             | 1        | -      | -      | -      | -      |
| LQW2BHN22□03  | 220             | -        | -      | -      | -      | -      |
| LQW2BHN27□03  | 270             | -        | -      | -      | -      | -      |
| LQW2BHN33□03  | 330             | -        | -      | -      | -      | -      |
| LQW2BHN39□03  | 390             | -        | -      | -      | -      | -      |
| LQW2BHN47□03  | 470             | -        | -      | -      | -      | -      |

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## Wire Wound Type (Non-Magnetic Core)

**LQW2BHN\_13** Series 0805/2015 (inch/mm)

Size Code 0805 (2015) in inch (in mm), High Q Wound, Low DC Resistance Type

■ Appearance/  
Dimensions

## ■ Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| L    | ø180mm Embossed Taping | 2000             |
| K    | ø330mm Embossed Taping | 7500             |



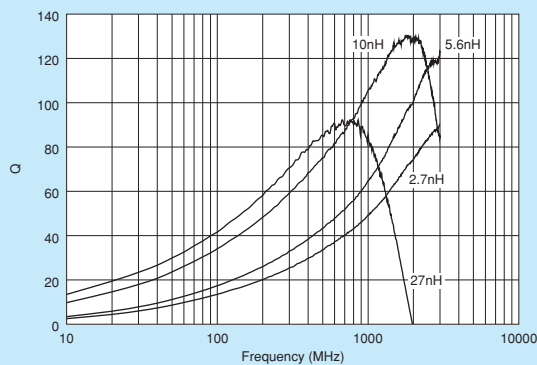
Refer to pages 227 to 230 for mounting information.

## ■ Rated Value (□: packaging code)

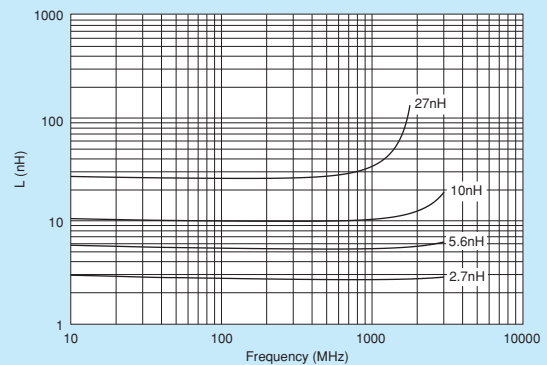
| Part Number    | Inductance   | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |     |
|----------------|--------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|-----|
| LQW2BHN2N7D13□ | 2.7nH ±0.5nH | 100MHz                    | 1900mA        | 0.02Ω                 | 20       | 250MHz           | 6000MHz                         | Kit |
| LQW2BHN3N1D13□ | 3.1nH ±0.5nH | 100MHz                    | 1800mA        | 0.02Ω                 | 20       | 250MHz           | 6000MHz                         | Kit |
| LQW2BHN3N3D13□ | 3.3nH ±0.5nH | 100MHz                    | 1700mA        | 0.02Ω                 | 20       | 250MHz           | 6000MHz                         | Kit |
| LQW2BHN5N6D13□ | 5.6nH ±0.5nH | 100MHz                    | 1500mA        | 0.02Ω                 | 35       | 250MHz           | 6000MHz                         | Kit |
| LQW2BHN6N8D13□ | 6.8nH ±0.5nH | 100MHz                    | 1400mA        | 0.02Ω                 | 35       | 250MHz           | 5400MHz                         | Kit |
| LQW2BHN8N6D13□ | 8.6nH ±0.5nH | 100MHz                    | 1300mA        | 0.03Ω                 | 35       | 250MHz           | 3900MHz                         | Kit |
| LQW2BHN10NJ13□ | 10nH ±5%     | 100MHz                    | 1320mA        | 0.03Ω                 | 35       | 250MHz           | 3300MHz                         | Kit |
| LQW2BHN12NK13□ | 12nH ±10%    | 100MHz                    | 1100mA        | 0.04Ω                 | 40       | 250MHz           | 3200MHz                         | Kit |
| LQW2BHN15NK13□ | 15nH ±10%    | 100MHz                    | 1000mA        | 0.04Ω                 | 40       | 250MHz           | 3100MHz                         | Kit |
| LQW2BHN18NK13□ | 18.8nH ±10%  | 100MHz                    | 1000mA        | 0.05Ω                 | 40       | 250MHz           | 2600MHz                         | Kit |
| LQW2BHN21NK13□ | 21nH ±10%    | 100MHz                    | 950mA         | 0.05Ω                 | 40       | 250MHz           | 2200MHz                         | Kit |
| LQW2BHN27NK13□ | 27nH ±10%    | 100MHz                    | 900mA         | 0.06Ω                 | 40       | 250MHz           | 1800MHz                         | Kit |

Operating Temperature Range (Self-temperature rise is not included): -40°C~+85°C

## ■ Q-Frequency Characteristics (Typ.)



## ■ Inductance-Frequency Characteristics (Typ.)



Continued on the following page.

⚠Note • Please read rating and ⚠CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.  
 • This catalog has only typical specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

# Reference Data

## LQW2BHN\_13

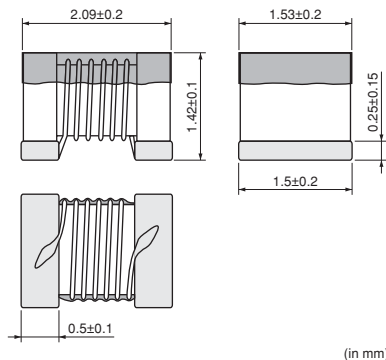
4991A&amp;16197A

| Part Number   | Inductance (nH) | Q (Typ.) |        |        |        |        |
|---------------|-----------------|----------|--------|--------|--------|--------|
|               | 100MHz          | 800MHz   | 900MHz | 1.8GHz | 2.0GHz | 2.4GHz |
| LQW2BHN2N7□13 | 2.7             | 73       | 77     | 113    | 119    | 128    |
| LQW2BHN3N1□13 | 3.1             | 67       | 72     | 111    | 115    | 126    |
| LQW2BHN3N3□13 | 3.3             | 83       | 90     | 120    | 121    | 138    |
| LQW2BHN5N6□13 | 5.6             | 60       | 82     | 127    | 130    | 142    |
| LQW2BHN6N8□13 | 6.8             | 68       | 72     | 110    | 113    | 120    |
| LQW2BHN8N6□13 | 8.6             | 90       | 100    | 140    | 142    | 135    |
| LQW2BHN10N□13 | 10              | 90       | 95     | 124    | 118    | 106    |
| LQW2BHN12N□13 | 12              | 103      | 107    | 115    | 101    | 76     |
| LQW2BHN15N□13 | 15              | 91       | 94     | 91     | 75     | 49     |
| LQW2BHN18N□13 | 18.8            | 105      | 109    | 65     | 44     | 15     |
| LQW2BHN21N□13 | 21              | 98       | 98     | 52     | 31     | -      |
| LQW2BHN27N□13 | 27              | 87       | 83     | 10     | -      | -      |

## Wire Wound Type (Non-Magnetic Core)

**LQW2BAS\_00** Series 0805/2015 (inch/mm)

Size Code 0805 (2015) in inch (in mm), Horizontal Wound Type

■ Appearance/  
Dimensions

(in mm)

## ■ Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| L    | ø180mm Embossed Taping | 2000             |



Refer to pages 227 to 230 for mounting information.

## ■ Rated Value (□: packaging code)

| Part Number    | Inductance | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |     |
|----------------|------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|-----|
| LQW2BAS2N8J00□ | 2.8nH ±5%  | 250MHz                    | 800mA         | 0.06Ω                 | 80       | 1500MHz          | 12200MHz                        | Kit |
| LQW2BAS3N0J00□ | 3.0nH ±5%  | 250MHz                    | 800mA         | 0.06Ω                 | 65       | 1500MHz          | 12200MHz                        | Kit |
| LQW2BAS5N6J00□ | 5.6nH ±5%  | 250MHz                    | 600mA         | 0.08Ω                 | 65       | 1000MHz          | 5900MHz                         | Kit |
| LQW2BAS6N8J00□ | 6.8nH ±5%  | 250MHz                    | 600mA         | 0.11Ω                 | 50       | 1000MHz          | 5600MHz                         | Kit |
| LQW2BAS7N5J00□ | 7.5nH ±5%  | 250MHz                    | 600mA         | 0.14Ω                 | 50       | 1000MHz          | 4800MHz                         | Kit |
| LQW2BAS8N2J00□ | 8.2nH ±5%  | 250MHz                    | 600mA         | 0.12Ω                 | 50       | 1000MHz          | 4400MHz                         | Kit |
| LQW2BAS10NJ00□ | 10nH ±5%   | 250MHz                    | 600mA         | 0.10Ω                 | 60       | 500MHz           | 4300MHz                         | Kit |
| LQW2BAS12NJ00□ | 12nH ±5%   | 250MHz                    | 600mA         | 0.15Ω                 | 50       | 500MHz           | 4000MHz                         | Kit |
| LQW2BAS15NJ00□ | 15nH ±5%   | 250MHz                    | 600mA         | 0.17Ω                 | 50       | 500MHz           | 3200MHz                         | Kit |
| LQW2BAS18NJ00□ | 18nH ±5%   | 250MHz                    | 600mA         | 0.20Ω                 | 50       | 500MHz           | 3100MHz                         | Kit |
| LQW2BAS22NJ00□ | 22nH ±5%   | 250MHz                    | 500mA         | 0.22Ω                 | 55       | 500MHz           | 2600MHz                         | Kit |
| LQW2BAS24NJ00□ | 24nH ±5%   | 250MHz                    | 500mA         | 0.22Ω                 | 50       | 500MHz           | 2400MHz                         | Kit |
| LQW2BAS27NJ00□ | 27nH ±5%   | 250MHz                    | 500mA         | 0.25Ω                 | 55       | 500MHz           | 2580MHz                         | Kit |
| LQW2BAS33NG00□ | 33nH ±2%   | 250MHz                    | 500mA         | 0.27Ω                 | 60       | 500MHz           | 2150MHz                         | Kit |
| LQW2BAS33NJ00□ | 33nH ±5%   | 250MHz                    | 500mA         | 0.27Ω                 | 60       | 500MHz           | 2150MHz                         |     |
| LQW2BAS36NG00□ | 36nH ±2%   | 250MHz                    | 500mA         | 0.27Ω                 | 55       | 500MHz           | 1900MHz                         | Kit |
| LQW2BAS36NJ00□ | 36nH ±5%   | 250MHz                    | 500mA         | 0.27Ω                 | 55       | 500MHz           | 1900MHz                         |     |
| LQW2BAS39NG00□ | 39nH ±2%   | 250MHz                    | 500mA         | 0.29Ω                 | 60       | 500MHz           | 2000MHz                         | Kit |
| LQW2BAS39NJ00□ | 39nH ±5%   | 250MHz                    | 500mA         | 0.29Ω                 | 60       | 500MHz           | 2000MHz                         |     |
| LQW2BAS43NG00□ | 43nH ±2%   | 200MHz                    | 500mA         | 0.34Ω                 | 60       | 500MHz           | 1800MHz                         | Kit |
| LQW2BAS43NJ00□ | 43nH ±5%   | 200MHz                    | 500mA         | 0.34Ω                 | 60       | 500MHz           | 1800MHz                         |     |
| LQW2BAS47NG00□ | 47nH ±2%   | 200MHz                    | 500mA         | 0.31Ω                 | 60       | 500MHz           | 1700MHz                         | Kit |
| LQW2BAS47NJ00□ | 47nH ±5%   | 200MHz                    | 500mA         | 0.31Ω                 | 60       | 500MHz           | 1700MHz                         |     |
| LQW2BAS56NG00□ | 56nH ±2%   | 200MHz                    | 500mA         | 0.34Ω                 | 60       | 500MHz           | 1600MHz                         | Kit |
| LQW2BAS56NJ00□ | 56nH ±5%   | 200MHz                    | 500mA         | 0.34Ω                 | 60       | 500MHz           | 1600MHz                         |     |
| LQW2BAS68NG00□ | 68nH ±2%   | 200MHz                    | 500mA         | 0.38Ω                 | 60       | 500MHz           | 1500MHz                         | Kit |
| LQW2BAS68NJ00□ | 68nH ±5%   | 200MHz                    | 500mA         | 0.38Ω                 | 60       | 500MHz           | 1500MHz                         |     |
| LQW2BAS82NG00□ | 82nH ±2%   | 150MHz                    | 400mA         | 0.42Ω                 | 65       | 500MHz           | 1330MHz                         | Kit |
| LQW2BAS82NJ00□ | 82nH ±5%   | 150MHz                    | 400mA         | 0.42Ω                 | 65       | 500MHz           | 1330MHz                         |     |
| LQW2BAS91NG00□ | 91nH ±2%   | 150MHz                    | 400mA         | 0.48Ω                 | 65       | 500MHz           | 1330MHz                         | Kit |
| LQW2BAS91NJ00□ | 91nH ±5%   | 150MHz                    | 400mA         | 0.48Ω                 | 65       | 500MHz           | 1330MHz                         |     |
| LQW2BASR10G00□ | 100nH ±2%  | 150MHz                    | 400mA         | 0.46Ω                 | 65       | 500MHz           | 1250MHz                         | Kit |

Operating Temperature Range (Self-temperature rise is not included): -55°C~+125°C  
 For reflow soldering only.

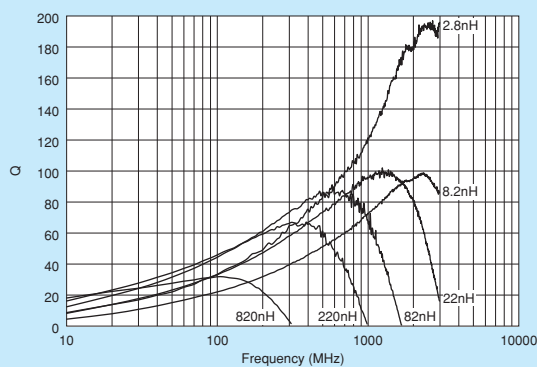
Continued on the following page.

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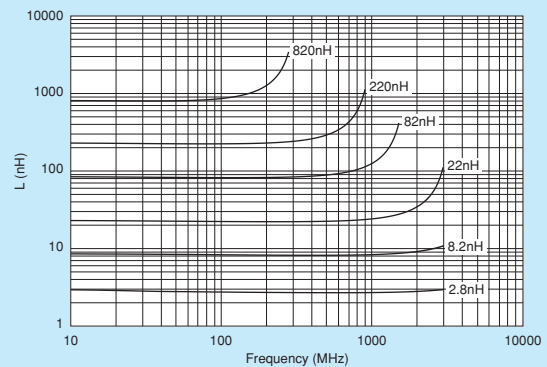
| Part Number    | Inductance | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |     |
|----------------|------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|-----|
| LQW2BASR10J00□ | 100nH ±5%  | 150MHz                    | 400mA         | 0.46Ω                 | 65       | 500MHz           | 1250MHz                         |     |
| LQW2BASR11G00□ | 110nH ±2%  | 150MHz                    | 400mA         | 0.48Ω                 | 50       | 250MHz           | 1100MHz                         | Kit |
| LQW2BASR11J00□ | 110nH ±5%  | 150MHz                    | 400mA         | 0.48Ω                 | 50       | 250MHz           | 1100MHz                         |     |
| LQW2BASR12G00□ | 120nH ±2%  | 150MHz                    | 400mA         | 0.51Ω                 | 50       | 250MHz           | 1100MHz                         | Kit |
| LQW2BASR12J00□ | 120nH ±5%  | 150MHz                    | 400mA         | 0.51Ω                 | 50       | 250MHz           | 1100MHz                         |     |
| LQW2BASR15G00□ | 150nH ±2%  | 100MHz                    | 400mA         | 0.56Ω                 | 50       | 250MHz           | 920MHz                          | Kit |
| LQW2BASR15J00□ | 150nH ±5%  | 100MHz                    | 400mA         | 0.56Ω                 | 50       | 250MHz           | 920MHz                          |     |
| LQW2BASR18G00□ | 180nH ±2%  | 100MHz                    | 400mA         | 0.64Ω                 | 50       | 250MHz           | 920MHz                          | Kit |
| LQW2BASR18J00□ | 180nH ±5%  | 100MHz                    | 400mA         | 0.64Ω                 | 50       | 250MHz           | 920MHz                          |     |
| LQW2BASR22G00□ | 220nH ±2%  | 100MHz                    | 400mA         | 0.70Ω                 | 50       | 250MHz           | 820MHz                          | Kit |
| LQW2BASR22J00□ | 220nH ±5%  | 100MHz                    | 400mA         | 0.70Ω                 | 50       | 250MHz           | 820MHz                          |     |
| LQW2BASR24G00□ | 240nH ±2%  | 100MHz                    | 350mA         | 1.00Ω                 | 44       | 250MHz           | 770MHz                          | Kit |
| LQW2BASR24J00□ | 240nH ±5%  | 100MHz                    | 350mA         | 1.00Ω                 | 44       | 250MHz           | 770MHz                          |     |
| LQW2BASR27G00□ | 270nH ±2%  | 100MHz                    | 350mA         | 1.00Ω                 | 48       | 250MHz           | 730MHz                          | Kit |
| LQW2BASR27J00□ | 270nH ±5%  | 100MHz                    | 350mA         | 1.00Ω                 | 48       | 250MHz           | 730MHz                          |     |
| LQW2BASR33G00□ | 330nH ±2%  | 100MHz                    | 310mA         | 1.40Ω                 | 48       | 250MHz           | 650MHz                          | Kit |
| LQW2BASR33J00□ | 330nH ±5%  | 100MHz                    | 310mA         | 1.40Ω                 | 48       | 250MHz           | 650MHz                          |     |
| LQW2BASR39J00□ | 390nH ±5%  | 100MHz                    | 290mA         | 1.50Ω                 | 48       | 250MHz           | 600MHz                          | Kit |
| LQW2BASR47J00□ | 470nH ±5%  | 50MHz                     | 250mA         | 1.76Ω                 | 33       | 100MHz           | 300MHz                          | Kit |
| LQW2BASR56J00□ | 560nH ±5%  | 25MHz                     | 230mA         | 1.90Ω                 | 23       | 50MHz            | 270MHz                          | Kit |
| LQW2BASR68J00□ | 680nH ±5%  | 25MHz                     | 190mA         | 2.20Ω                 | 23       | 50MHz            | 250MHz                          | Kit |
| LQW2BASR82J00□ | 820nH ±5%  | 25MHz                     | 180mA         | 2.35Ω                 | 23       | 50MHz            | 230MHz                          | Kit |

Operating Temperature Range (Self-temperature rise is not included): -55°C~+125°C  
For reflow soldering only.

■ Q-Frequency Characteristics (Typ.)



■ Inductance-Frequency Characteristics (Typ.)



Continued on the following page.

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# Reference Data

## LQW2BAS\_00

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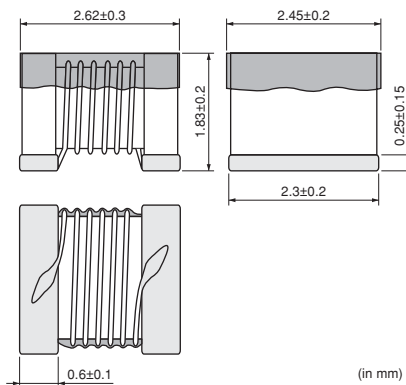
| Part Number   | Inductance (nH) | Q (Typ.) |        |        |        |        |
|---------------|-----------------|----------|--------|--------|--------|--------|
|               | 100MHz          | 800MHz   | 900MHz | 1.8GHz | 2.0GHz | 2.4GHz |
| LQW2BAS2N8□00 | 2.8             | 100      | 95     | 170    | 175    | 190    |
| LQW2BAS3N0□00 | 3               | 63       | 67     | 100    | 104    | 110    |
| LQW2BAS5N6□00 | 5.6             | 96       | 100    | 150    | 153    | 160    |
| LQW2BAS6N8□00 | 6.8             | 77       | 70     | 97     | 100    | 106    |
| LQW2BAS7N5□00 | 7.5             | 66       | 70     | 91     | 90     | 94     |
| LQW2BAS8N2□00 | 8.2             | 64       | 70     | 94     | 94     | 96     |
| LQW2BAS10N□00 | 10              | 96       | 100    | 138    | 140    | 138    |
| LQW2BAS12N□00 | 12              | 73       | 77     | 120    | 103    | 101    |
| LQW2BAS15N□00 | 15              | 78       | 80     | 92     | 80     | 76     |
| LQW2BAS18N□00 | 18              | 84       | 89     | 104    | 100    | 86     |
| LQW2BAS22N□00 | 22              | 91       | 90     | 89     | 80     | 56     |
| LQW2BAS24N□00 | 24              | 87       | 87     | 63     | 51     | 36     |
| LQW2BAS27N□00 | 27              | 90       | 92     | 93     | 89     | 65     |
| LQW2BAS33N□00 | 33              | 92       | 93     | 60     | 45     | 13     |
| LQW2BAS36N□00 | 36              | 92       | 93     | 43     | 26     | 2      |
| LQW2BAS39N□00 | 39              | 96       | 95     | 61     | 41     | 15     |
| LQW2BAS43N□00 | 43              | 95       | 96     | 37     | 17     | -      |
| LQW2BAS47N□00 | 47              | 91       | 88     | 24     | 5      | -      |
| LQW2BAS56N□00 | 56              | 92       | 90     | 17     | -      | -      |
| LQW2BAS68N□00 | 68              | 91       | 87     | 4      | -      | -      |
| LQW2BAS82N□00 | 82              | 85       | 75     | -      | -      | -      |
| LQW2BAS91N□00 | 91              | 83       | 74     | -      | -      | -      |
| LQW2BASR10□00 | 100             | 78       | 64     | -      | -      | -      |
| LQW2BASR11□00 | 110             | 68       | 50     | -      | -      | -      |
| LQW2BASR12□00 | 120             | 48       | 28     | -      | -      | -      |
| LQW2BASR15□00 | 150             | 48       | 32     | -      | -      | -      |
| LQW2BASR18□00 | 180             | 34       | 20     | -      | -      | -      |
| LQW2BASR22□00 | 220             | 29       | 11     | -      | -      | -      |
| LQW2BASR24□00 | 240             | 22       | 5      | -      | -      | -      |
| LQW2BASR27□00 | 270             | 11       | -      | -      | -      | -      |
| LQW2BASR33□00 | 330             | 4        | -      | -      | -      | -      |
| LQW2BASR39□00 | 390             | -        | -      | -      | -      | -      |
| LQW2BASR47□00 | 470             | -        | -      | -      | -      | -      |
| LQW2BASR56□00 | 560             | -        | -      | -      | -      | -      |
| LQW2BASR68□00 | 680             | -        | -      | -      | -      | -      |
| LQW2BASR82□00 | 820             | -        | -      | -      | -      | -      |

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## Wire Wound Type (Non-Magnetic Core)

**LQW2UAS\_00** Series 1008/2520 (inch/mm)

Size Code 1008 (2520) in inch (in mm), Wound Type

■ Appearance/  
Dimensions

## ■ Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| L    | ø180mm Embossed Taping | 2000             |



Refer to pages 227 to 230 for mounting information.

## ■ Rated Value (□: packaging code)

| Part Number    | Inductance      | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |     |
|----------------|-----------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|-----|
| LQW2UAS12NG00□ | 12nH $\pm 2\%$  | 50MHz                     | 1000mA        | 0.09Ω                 | 50       | 500MHz           | 3300MHz                         | Kit |
| LQW2UAS12NJ00□ | 12nH $\pm 5\%$  | 50MHz                     | 1000mA        | 0.09Ω                 | 50       | 500MHz           | 3300MHz                         |     |
| LQW2UAS18NG00□ | 18nH $\pm 2\%$  | 50MHz                     | 1000mA        | 0.11Ω                 | 50       | 350MHz           | 2500MHz                         | Kit |
| LQW2UAS18NJ00□ | 18nH $\pm 5\%$  | 50MHz                     | 1000mA        | 0.11Ω                 | 50       | 350MHz           | 2500MHz                         |     |
| LQW2UAS22NG00□ | 22nH $\pm 2\%$  | 50MHz                     | 1000mA        | 0.12Ω                 | 55       | 350MHz           | 2400MHz                         | Kit |
| LQW2UAS22NJ00□ | 22nH $\pm 5\%$  | 50MHz                     | 1000mA        | 0.12Ω                 | 55       | 350MHz           | 2400MHz                         |     |
| LQW2UAS27NG00□ | 27nH $\pm 2\%$  | 50MHz                     | 1000mA        | 0.13Ω                 | 55       | 350MHz           | 1600MHz                         | Kit |
| LQW2UAS27NJ00□ | 27nH $\pm 5\%$  | 50MHz                     | 1000mA        | 0.13Ω                 | 55       | 350MHz           | 1600MHz                         |     |
| LQW2UAS33NG00□ | 33nH $\pm 2\%$  | 50MHz                     | 1000mA        | 0.14Ω                 | 60       | 350MHz           | 1600MHz                         | Kit |
| LQW2UAS33NJ00□ | 33nH $\pm 5\%$  | 50MHz                     | 1000mA        | 0.14Ω                 | 60       | 350MHz           | 1600MHz                         |     |
| LQW2UAS39NG00□ | 39nH $\pm 2\%$  | 50MHz                     | 1000mA        | 0.15Ω                 | 60       | 350MHz           | 1500MHz                         | Kit |
| LQW2UAS39NJ00□ | 39nH $\pm 5\%$  | 50MHz                     | 1000mA        | 0.15Ω                 | 60       | 350MHz           | 1500MHz                         |     |
| LQW2UAS47NG00□ | 47nH $\pm 2\%$  | 50MHz                     | 1000mA        | 0.16Ω                 | 65       | 350MHz           | 1500MHz                         | Kit |
| LQW2UAS47NJ00□ | 47nH $\pm 5\%$  | 50MHz                     | 1000mA        | 0.16Ω                 | 65       | 350MHz           | 1500MHz                         |     |
| LQW2UAS56NG00□ | 56nH $\pm 2\%$  | 50MHz                     | 1000mA        | 0.18Ω                 | 65       | 350MHz           | 1300MHz                         | Kit |
| LQW2UAS56NJ00□ | 56nH $\pm 5\%$  | 50MHz                     | 1000mA        | 0.18Ω                 | 65       | 350MHz           | 1300MHz                         |     |
| LQW2UAS68NG00□ | 68nH $\pm 2\%$  | 50MHz                     | 1000mA        | 0.2Ω                  | 65       | 350MHz           | 1300MHz                         | Kit |
| LQW2UAS68NJ00□ | 68nH $\pm 5\%$  | 50MHz                     | 1000mA        | 0.2Ω                  | 65       | 350MHz           | 1300MHz                         |     |
| LQW2UAS82NG00□ | 82nH $\pm 2\%$  | 50MHz                     | 1000mA        | 0.22Ω                 | 60       | 350MHz           | 1000MHz                         | Kit |
| LQW2UAS82NJ00□ | 82nH $\pm 5\%$  | 50MHz                     | 1000mA        | 0.22Ω                 | 60       | 350MHz           | 1000MHz                         |     |
| LQW2UASR10G00□ | 100nH $\pm 2\%$ | 25MHz                     | 650mA         | 0.56Ω                 | 60       | 350MHz           | 1000MHz                         | Kit |
| LQW2UASR10J00□ | 100nH $\pm 5\%$ | 25MHz                     | 650mA         | 0.56Ω                 | 60       | 350MHz           | 1000MHz                         |     |
| LQW2UASR12G00□ | 120nH $\pm 2\%$ | 25MHz                     | 650mA         | 0.63Ω                 | 60       | 350MHz           | 950MHz                          | Kit |
| LQW2UASR12J00□ | 120nH $\pm 5\%$ | 25MHz                     | 650mA         | 0.63Ω                 | 60       | 350MHz           | 950MHz                          |     |
| LQW2UASR15G00□ | 150nH $\pm 2\%$ | 25MHz                     | 580mA         | 0.7Ω                  | 45       | 100MHz           | 850MHz                          | Kit |
| LQW2UASR15J00□ | 150nH $\pm 5\%$ | 25MHz                     | 580mA         | 0.7Ω                  | 45       | 100MHz           | 850MHz                          |     |
| LQW2UASR18G00□ | 180nH $\pm 2\%$ | 25MHz                     | 620mA         | 0.77Ω                 | 45       | 100MHz           | 750MHz                          | Kit |
| LQW2UASR18J00□ | 180nH $\pm 5\%$ | 25MHz                     | 620mA         | 0.77Ω                 | 45       | 100MHz           | 750MHz                          |     |
| LQW2UASR22G00□ | 220nH $\pm 2\%$ | 25MHz                     | 500mA         | 0.84Ω                 | 45       | 100MHz           | 700MHz                          | Kit |
| LQW2UASR22J00□ | 220nH $\pm 5\%$ | 25MHz                     | 500mA         | 0.84Ω                 | 45       | 100MHz           | 700MHz                          |     |
| LQW2UASR27G00□ | 270nH $\pm 2\%$ | 25MHz                     | 500mA         | 0.91Ω                 | 45       | 100MHz           | 600MHz                          | Kit |
| LQW2UASR27J00□ | 270nH $\pm 5\%$ | 25MHz                     | 500mA         | 0.91Ω                 | 45       | 100MHz           | 600MHz                          |     |

Operating Temperature Range (Self-temperature rise is not included): -55°C~+125°C  
 For reflow soldering only.

Continued on the following page.

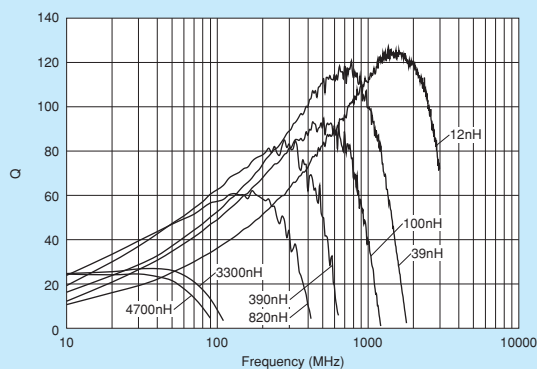
△Note • Please read rating and △CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.  
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Nov.25,2013

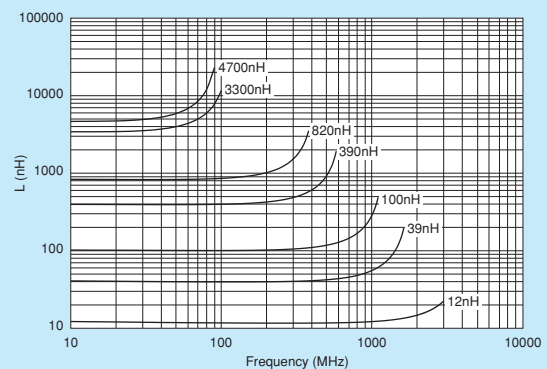
| Part Number    | Inductance | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |     |
|----------------|------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|-----|
| LQW2UASR33G00□ | 330nH ±2%  | 25MHz                     | 450mA         | 1.05Ω                 | 45       | 100MHz           | 570MHz                          | Kit |
| LQW2UASR33J00□ | 330nH ±5%  | 25MHz                     | 450mA         | 1.05Ω                 | 45       | 100MHz           | 570MHz                          |     |
| LQW2UASR39G00□ | 390nH ±2%  | 25MHz                     | 470mA         | 1.12Ω                 | 45       | 100MHz           | 500MHz                          | Kit |
| LQW2UASR39J00□ | 390nH ±5%  | 25MHz                     | 470mA         | 1.12Ω                 | 45       | 100MHz           | 500MHz                          |     |
| LQW2UASR47G00□ | 470nH ±2%  | 25MHz                     | 470mA         | 1.19Ω                 | 45       | 100MHz           | 450MHz                          | Kit |
| LQW2UASR47J00□ | 470nH ±5%  | 25MHz                     | 470mA         | 1.19Ω                 | 45       | 100MHz           | 450MHz                          |     |
| LQW2UASR56G00□ | 560nH ±2%  | 25MHz                     | 400mA         | 1.33Ω                 | 45       | 100MHz           | 415MHz                          | Kit |
| LQW2UASR56J00□ | 560nH ±5%  | 25MHz                     | 400mA         | 1.33Ω                 | 45       | 100MHz           | 415MHz                          |     |
| LQW2UASR62G00□ | 620nH ±2%  | 25MHz                     | 300mA         | 1.4Ω                  | 45       | 100MHz           | 375MHz                          | Kit |
| LQW2UASR62J00□ | 620nH ±5%  | 25MHz                     | 300mA         | 1.4Ω                  | 45       | 100MHz           | 375MHz                          |     |
| LQW2UASR68G00□ | 680nH ±2%  | 25MHz                     | 400mA         | 1.47Ω                 | 45       | 100MHz           | 375MHz                          | Kit |
| LQW2UASR68J00□ | 680nH ±5%  | 25MHz                     | 400mA         | 1.47Ω                 | 45       | 100MHz           | 375MHz                          |     |
| LQW2UASR75G00□ | 750nH ±2%  | 25MHz                     | 360mA         | 1.54Ω                 | 45       | 100MHz           | 360MHz                          | Kit |
| LQW2UASR75J00□ | 750nH ±5%  | 25MHz                     | 360mA         | 1.54Ω                 | 45       | 100MHz           | 360MHz                          |     |
| LQW2UASR82G00□ | 820nH ±2%  | 25MHz                     | 400mA         | 1.61Ω                 | 45       | 100MHz           | 350MHz                          | Kit |
| LQW2UASR82J00□ | 820nH ±5%  | 25MHz                     | 400mA         | 1.61Ω                 | 45       | 100MHz           | 350MHz                          |     |
| LQW2UASR91G00□ | 910nH ±2%  | 25MHz                     | 380mA         | 1.68Ω                 | 35       | 50MHz            | 320MHz                          | Kit |
| LQW2UASR91J00□ | 910nH ±5%  | 25MHz                     | 380mA         | 1.68Ω                 | 35       | 50MHz            | 320MHz                          |     |
| LQW2UAS1R0G00□ | 1000nH ±2% | 25MHz                     | 370mA         | 1.75Ω                 | 35       | 50MHz            | 290MHz                          | Kit |
| LQW2UAS1R0J00□ | 1000nH ±5% | 25MHz                     | 370mA         | 1.75Ω                 | 35       | 50MHz            | 290MHz                          |     |
| LQW2UAS1R2J00□ | 1200nH ±5% | 7.9MHz                    | 310mA         | 2.0Ω                  | 35       | 50MHz            | 210MHz                          | Kit |
| LQW2UAS1R5J00□ | 1500nH ±5% | 7.9MHz                    | 330mA         | 2.3Ω                  | 28       | 50MHz            | 120MHz                          | Kit |
| LQW2UAS1R8J00□ | 1800nH ±5% | 7.9MHz                    | 300mA         | 2.6Ω                  | 28       | 50MHz            | 140MHz                          | Kit |
| LQW2UAS2R2J00□ | 2200nH ±5% | 7.9MHz                    | 280mA         | 2.8Ω                  | 28       | 50MHz            | 130MHz                          | Kit |
| LQW2UAS2R7J00□ | 2700nH ±5% | 7.9MHz                    | 290mA         | 3.2Ω                  | 22       | 25MHz            | 110MHz                          | Kit |
| LQW2UAS3R3J00□ | 3300nH ±5% | 7.9MHz                    | 290mA         | 3.4Ω                  | 22       | 25MHz            | 90MHz                           | Kit |
| LQW2UAS3R9J00□ | 3900nH ±5% | 7.9MHz                    | 260mA         | 3.6Ω                  | 20       | 25MHz            | 70MHz                           | Kit |
| LQW2UAS4R7J00□ | 4700nH ±5% | 7.9MHz                    | 260mA         | 4.0Ω                  | 20       | 25MHz            | 60MHz                           | Kit |

Operating Temperature Range (Self-temperature rise is not included): -55°C~+125°C  
For reflow soldering only.

■ Q-Frequency Characteristics (Typ.)



■ Inductance-Frequency Characteristics (Typ.)



Continued on the following page.

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## ■ Reference Data

## LQW2UAS\_00

4991A&amp;16197A

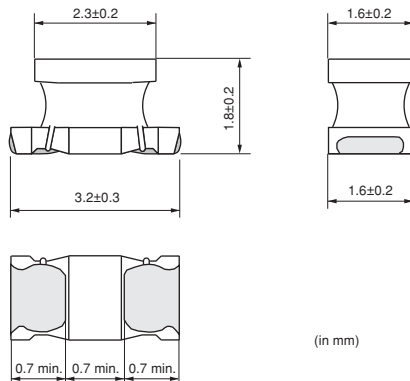
| Part Number   | Inductance (nH) | Q (Typ.) |        |        |        |        |
|---------------|-----------------|----------|--------|--------|--------|--------|
|               | 100MHz          | 800MHz   | 900MHz | 1.8GHz | 2.0GHz | 2.4GHz |
| LQW2UAS12N□00 | 12              | 108      | 114    | 125    | 120    | 110    |
| LQW2UAS18N□00 | 18              | 123      | 130    | 123    | 118    | 90     |
| LQW2UAS22N□00 | 22              | 120      | 122    | 94     | 73     | 43     |
| LQW2UAS27N□00 | 27              | 103      | 103    | 34     | 14     | -      |
| LQW2UAS33N□00 | 33              | 122      | 125    | 67     | 41     | -      |
| LQW2UAS39N□00 | 39              | 115      | 110    | 9      | -      | -      |
| LQW2UAS47N□00 | 47              | 120      | 125    | 19     | -      | -      |
| LQW2UAS56N□00 | 56              | 111      | 98     | -      | -      | -      |
| LQW2UAS68N□00 | 68              | 110      | 100    | -      | -      | -      |
| LQW2UAS82N□00 | 82              | 75       | 60     | -      | -      | -      |
| LQW2UASR10□00 | 100             | 70       | 57     | -      | -      | -      |
| LQW2UASR12□00 | 120             | 67       | 50     | -      | -      | -      |
| LQW2UASR15□00 | 150             | 47       | 25     | -      | -      | -      |
| LQW2UASR18□00 | 180             | 27       | 5      | -      | -      | -      |
| LQW2UASR22□00 | 220             | 7        | -      | -      | -      | -      |
| LQW2UASR27□00 | 270             | -        | -      | -      | -      | -      |
| LQW2UASR33□00 | 330             | -        | -      | -      | -      | -      |
| LQW2UASR39□00 | 390             | -        | -      | -      | -      | -      |
| LQW2UASR47□00 | 470             | -        | -      | -      | -      | -      |
| LQW2UASR56□00 | 560             | -        | -      | -      | -      | -      |
| LQW2UASR62□00 | 620             | -        | -      | -      | -      | -      |
| LQW2UASR68□00 | 680             | -        | -      | -      | -      | -      |
| LQW2UASR75□00 | 750             | -        | -      | -      | -      | -      |
| LQW2UASR82□00 | 820             | -        | -      | -      | -      | -      |
| LQW2UASR91□00 | 910             | -        | -      | -      | -      | -      |
| LQW2UAS1R0□00 | 1000            | -        | -      | -      | -      | -      |
| LQW2UAS1R2□00 | 1200            | -        | -      | -      | -      | -      |
| LQW2UAS1R5□00 | 1500            | -        | -      | -      | -      | -      |
| LQW2UAS1R8□00 | 1800            | -        | -      | -      | -      | -      |
| LQW2UAS2R2□00 | 2200            | -        | -      | -      | -      | -      |
| LQW2UAS2R7□00 | 2700            | -        | -      | -      | -      | -      |
| LQW2UAS3R3□00 | 3300            | -        | -      | -      | -      | -      |
| LQW2UAS3R9□00 | 3900            | -        | -      | -      | -      | -      |
| LQW2UAS4R7□00 | 4700            | -        | -      | -      | -      | -      |

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# LQW31HN\_03

Series 1206/3216 (inch/mm)

Size Code 1206 (3216) in inch (in mm), Wound Type

■ Appearance/  
Dimensions

## ■ Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| L    | ø180mm Embossed Taping | 2000             |
| K    | ø330mm Embossed Taping | 7500             |



Refer to pages 227 to 230 for mounting information.

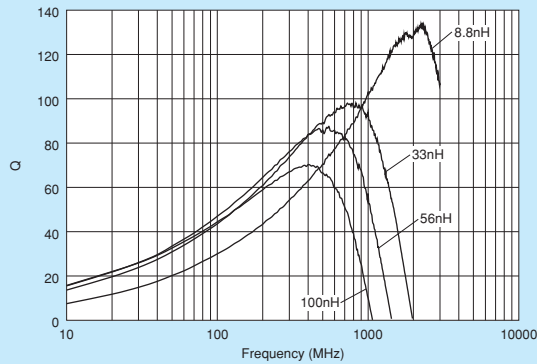
## ■ Rated Value (□: packaging code)

| Part Number    | Inductance  | Inductance Test Frequency | Rated Current | DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |
|----------------|-------------|---------------------------|---------------|---------------|----------|------------------|---------------------------------|
| LQW31HN8N8J03□ | 8.8nH ±5%   | 100MHz                    | 750mA         | 0.029Ω ±40%   | 50       | 436MHz           | 1000MHz                         |
| LQW31HN8N8K03□ | 8.8nH ±10%  | 100MHz                    | 750mA         | 0.029Ω ±40%   | 50       | 436MHz           | 1000MHz                         |
| LQW31HN15NJ03□ | 14.7nH ±5%  | 100MHz                    | 680mA         | 0.035Ω ±40%   | 60       | 436MHz           | 1000MHz                         |
| LQW31HN15NK03□ | 14.7nH ±10% | 100MHz                    | 680mA         | 0.035Ω ±40%   | 60       | 436MHz           | 1000MHz                         |
| LQW31HN17NJ03□ | 17nH ±5%    | 100MHz                    | 650mA         | 0.037Ω ±40%   | 60       | 436MHz           | 1000MHz                         |
| LQW31HN17NK03□ | 17nH ±10%   | 100MHz                    | 650mA         | 0.037Ω ±40%   | 60       | 436MHz           | 1000MHz                         |
| LQW31HN23NJ03□ | 23nH ±5%    | 100MHz                    | 590mA         | 0.046Ω ±40%   | 60       | 436MHz           | 1000MHz                         |
| LQW31HN23NK03□ | 23nH ±10%   | 100MHz                    | 590mA         | 0.046Ω ±40%   | 60       | 436MHz           | 1000MHz                         |
| LQW31HN27NJ03□ | 27nH ±5%    | 100MHz                    | 560mA         | 0.051Ω ±40%   | 60       | 436MHz           | 1000MHz                         |
| LQW31HN27NK03□ | 27nH ±10%   | 100MHz                    | 560mA         | 0.051Ω ±40%   | 60       | 436MHz           | 1000MHz                         |
| LQW31HN33NJ03□ | 33nH ±5%    | 100MHz                    | 530mA         | 0.057Ω ±40%   | 60       | 436MHz           | 1000MHz                         |
| LQW31HN33NK03□ | 33nH ±10%   | 100MHz                    | 530mA         | 0.057Ω ±40%   | 60       | 436MHz           | 1000MHz                         |
| LQW31HN39NJ03□ | 39nH ±5%    | 100MHz                    | 490mA         | 0.067Ω ±40%   | 60       | 436MHz           | 1000MHz                         |
| LQW31HN39NK03□ | 39nH ±10%   | 100MHz                    | 490mA         | 0.067Ω ±40%   | 60       | 436MHz           | 1000MHz                         |
| LQW31HN47NJ03□ | 47nH ±5%    | 100MHz                    | 380mA         | 0.11Ω ±40%    | 60       | 436MHz           | 1000MHz                         |
| LQW31HN47NK03□ | 47nH ±10%   | 100MHz                    | 380mA         | 0.11Ω ±40%    | 60       | 436MHz           | 1000MHz                         |
| LQW31HN56NJ03□ | 56nH ±5%    | 100MHz                    | 330mA         | 0.14Ω ±40%    | 60       | 436MHz           | 1000MHz                         |
| LQW31HN56NK03□ | 56nH ±10%   | 100MHz                    | 330mA         | 0.14Ω ±40%    | 60       | 436MHz           | 1000MHz                         |
| LQW31HN64NJ03□ | 64nH ±5%    | 100MHz                    | 290mA         | 0.18Ω ±40%    | 60       | 436MHz           | 1000MHz                         |
| LQW31HN64NK03□ | 64nH ±10%   | 100MHz                    | 290mA         | 0.18Ω ±40%    | 60       | 436MHz           | 1000MHz                         |
| LQW31HN84NJ03□ | 84nH ±5%    | 100MHz                    | 240mA         | 0.28Ω ±40%    | 60       | 436MHz           | 1000MHz                         |
| LQW31HN84NK03□ | 84nH ±10%   | 100MHz                    | 240mA         | 0.28Ω ±40%    | 60       | 436MHz           | 1000MHz                         |
| LQW31HNR10J03□ | 100nH ±5%   | 100MHz                    | 230mA         | 0.3Ω ±40%     | 60       | 436MHz           | 900MHz                          |
| LQW31HNR10K03□ | 100nH ±10%  | 100MHz                    | 230mA         | 0.3Ω ±40%     | 60       | 436MHz           | 900MHz                          |

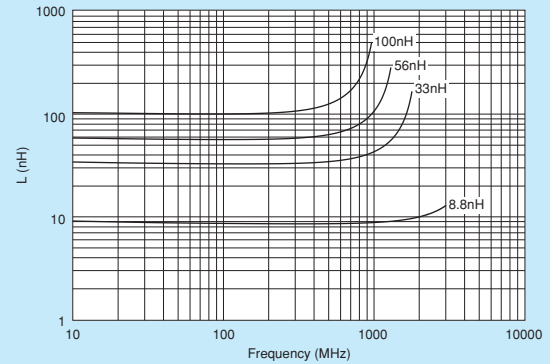
Operating Temperature Range (Self-temperature rise is not included): -40°C~+85°C

Continued on the following page. ↗

### ■ Q-Frequency Characteristics (Typ.)



### ■ Inductance-Frequency Characteristics (Typ.)



### ■ Reference Data

LQW31HN\_03

4991A&16197A

| Part Number   | Inductance (nH) | Q (Typ.) |        |        |        |        |
|---------------|-----------------|----------|--------|--------|--------|--------|
|               | 100MHz          | 800MHz   | 900MHz | 1.8GHz | 2.0GHz | 2.4GHz |
| LQW31HN8N8□03 | 8.8             | 101      | 107    | 146    | 146    | 157    |
| LQW31HN15N□03 | 14.7            | 105      | 108    | 92     | 75     | 50     |
| LQW31HN17N□03 | 17              | 106      | 108    | 66     | 47     | 22     |
| LQW31HN23N□03 | 23              | 109      | 109    | 53     | 32     | -      |
| LQW31HN27N□03 | 27              | 106      | 109    | 37     | 14     | -      |
| LQW31HN33N□03 | 33              | 98       | 96     | 5      | -      | -      |
| LQW31HN39N□03 | 39              | 90       | 88     | -      | -      | -      |
| LQW31HN47N□03 | 47              | 80       | 72     | -      | -      | -      |
| LQW31HN56N□03 | 56              | 77       | 67     | -      | -      | -      |
| LQW31HN64N□03 | 64              | 73       | 61     | -      | -      | -      |
| LQW31HN84N□03 | 84              | 59       | 47     | -      | -      | -      |
| LQW31HNR10□03 | 100             | 40       | 25     | -      | -      | -      |

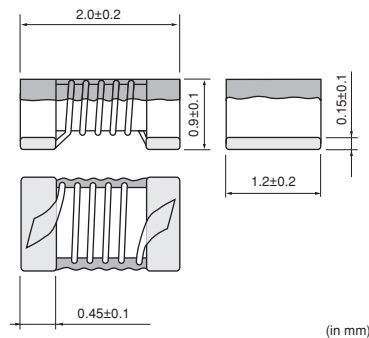
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# LQW21HN\_00

Series 0805/2012 (inch/mm)

Size Code 0805 (2012) in inch (in mm), Ferrite Core High Frequency Wound Type

## ■ Appearance/Dimensions



## ■ Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| L    | ø180mm Embossed Taping | 3000             |
| B    | Packing in Bulk        | 500              |



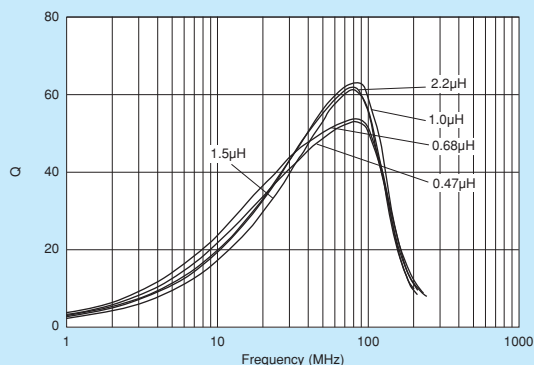
Refer to pages 227 to 230 for mounting information.

## ■ Rated Value (□: packaging code)

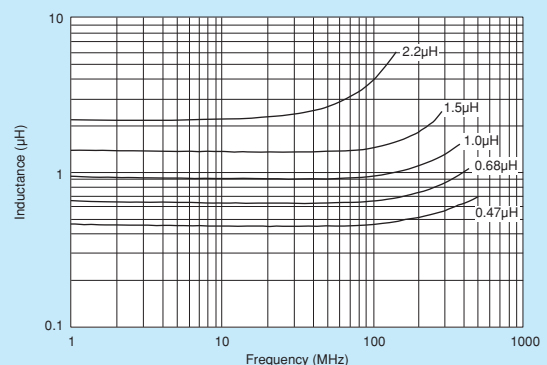
| Part Number    | Inductance | Inductance Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |     |
|----------------|------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|-----|
| LQW21HNR47J00□ | 0.47μH ±5% | 10MHz                     | 160mA         | 1.30Ω                 | 35       | 100MHz           | 620MHz                          | Kit |
| LQW21HNR56J00□ | 0.56μH ±5% | 10MHz                     | 150mA         | 1.43Ω                 | 35       | 100MHz           | 580MHz                          | Kit |
| LQW21HNR68J00□ | 0.68μH ±5% | 10MHz                     | 130mA         | 2.21Ω                 | 35       | 100MHz           | 520MHz                          | Kit |
| LQW21HNR82J00□ | 0.82μH ±5% | 10MHz                     | 125mA         | 2.34Ω                 | 35       | 100MHz           | 480MHz                          | Kit |
| LQW21HN1R0J00□ | 1.0μH ±5%  | 10MHz                     | 115mA         | 2.86Ω                 | 35       | 100MHz           | 450MHz                          | Kit |
| LQW21HN1R2J00□ | 1.2μH ±5%  | 10MHz                     | 100mA         | 3.12Ω                 | 35       | 100MHz           | 400MHz                          | Kit |
| LQW21HN1R5J00□ | 1.5μH ±5%  | 10MHz                     | 85mA          | 5.33Ω                 | 35       | 100MHz           | 350MHz                          | Kit |
| LQW21HN1R8J00□ | 1.8μH ±5%  | 10MHz                     | 80mA          | 5.85Ω                 | 35       | 100MHz           | 320MHz                          | Kit |
| LQW21HN2R2J00□ | 2.2μH ±5%  | 10MHz                     | 75mA          | 6.50Ω                 | 35       | 100MHz           | 300MHz                          | Kit |

Operating Temperature Range (Self-temperature rise is not included): -40°C~+85°C  
For reflow soldering only.

## ■ Q-Frequency Characteristics (Typ.)



## ■ Inductance-Frequency Characteristics (Typ.)



Continued on the following page.

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# ■ Reference Data

## LQW21HN\_00

4991A&amp;16197A

| Part Number   | Inductance (μH) | Q (Typ.) |       |       |       |        |
|---------------|-----------------|----------|-------|-------|-------|--------|
|               | 100MHz          | 30MHz    | 70MHz | 80MHz | 90MHz | 100MHz |
| LQW21HNR47□00 | 0.47            | 40       | 54    | 55    | 56    | 55     |
| LQW21HNR56□00 | 0.56            | 46       | 63    | 64    | 64    | 60     |
| LQW21HNR68□00 | 0.68            | 41       | 56    | 56    | 57    | 54     |
| LQW21HNR82□00 | 0.82            | 41       | 57    | 58    | 59    | 57     |
| LQW21HN1R0□00 | 1.0             | 44       | 54    | 54    | 54    | 50     |
| LQW21HN1R2□00 | 1.2             | 44       | 57    | 58    | 58    | 52     |
| LQW21HN1R5□00 | 1.5             | 39       | 56    | 56    | 56    | 53     |
| LQW21HN1R8□00 | 1.8             | 41       | 56    | 55    | 54    | 50     |
| LQW21HN2R2□00 | 2.2             | 43       | 57    | 55    | 55    | 50     |

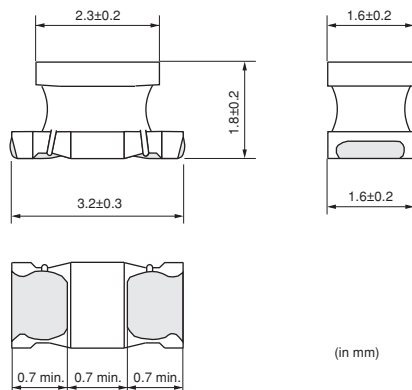
⚠Note • Please read rating and ⚠CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.  
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# LQH31HN\_03

Series 1206/3216 (inch/mm)

Size Code 1206 (3216) in inch (in mm), Ferrite Core High Frequency Wound Type

## ■ Appearance/Dimensions



## ■ Packaging

| Code | Packaging              | Minimum Quantity |
|------|------------------------|------------------|
| L    | ø180mm Embossed Taping | 2000             |
| K    | ø330mm Embossed Taping | 7500             |



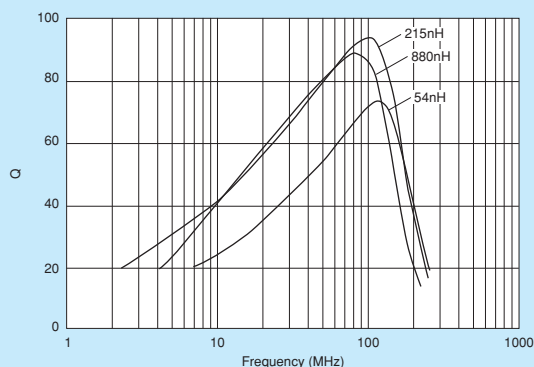
Refer to pages 227 to 230 for mounting information.

## ■ Rated Value (□: packaging code)

| Part Number    | Inductance | Inductance Test Frequency | Rated Current | DC Resistance | Q (min.) | Q Test Frequency | Self-Resonance Frequency (min.) |
|----------------|------------|---------------------------|---------------|---------------|----------|------------------|---------------------------------|
| LQH31HN54NK03□ | 54nH ±10%  | 1MHz                      | 920mA         | 0.035 Ω ±30%  | 50       | 100MHz           | 800MHz                          |
| LQH31HN95NK03□ | 95nH ±10%  | 1MHz                      | 790mA         | 0.047 Ω ±30%  | 60       | 100MHz           | 650MHz                          |
| LQH31HNR14J03□ | 145nH ±5%  | 1MHz                      | 700mA         | 0.061 Ω ±30%  | 60       | 100MHz           | 500MHz                          |
| LQH31HNR14K03□ | 145nH ±10% | 1MHz                      | 700mA         | 0.061 Ω ±30%  | 60       | 100MHz           | 500MHz                          |
| LQH31HNR21J03□ | 215nH ±5%  | 1MHz                      | 520mA         | 0.11 Ω ±30%   | 60       | 100MHz           | 430MHz                          |
| LQH31HNR21K03□ | 215nH ±10% | 1MHz                      | 520mA         | 0.11 Ω ±30%   | 60       | 100MHz           | 430MHz                          |
| LQH31HNR29J03□ | 290nH ±5%  | 1MHz                      | 420mA         | 0.17 Ω ±30%   | 60       | 100MHz           | 360MHz                          |
| LQH31HNR29K03□ | 290nH ±10% | 1MHz                      | 420mA         | 0.17 Ω ±30%   | 60       | 100MHz           | 360MHz                          |
| LQH31HNR39J03□ | 390nH ±5%  | 1MHz                      | 330mA         | 0.26 Ω ±30%   | 60       | 100MHz           | 300MHz                          |
| LQH31HNR39K03□ | 390nH ±10% | 1MHz                      | 330mA         | 0.26 Ω ±30%   | 60       | 100MHz           | 300MHz                          |
| LQH31HNR50J03□ | 500nH ±5%  | 1MHz                      | 260mA         | 0.44 Ω ±30%   | 60       | 100MHz           | 270MHz                          |
| LQH31HNR50K03□ | 500nH ±10% | 1MHz                      | 260mA         | 0.44 Ω ±30%   | 60       | 100MHz           | 270MHz                          |
| LQH31HNR61J03□ | 610nH ±5%  | 1MHz                      | 250mA         | 0.48 Ω ±30%   | 60       | 100MHz           | 240MHz                          |
| LQH31HNR61K03□ | 610nH ±10% | 1MHz                      | 250mA         | 0.48 Ω ±30%   | 60       | 100MHz           | 240MHz                          |
| LQH31HNR75J03□ | 750nH ±5%  | 1MHz                      | 190mA         | 0.79 Ω ±30%   | 60       | 100MHz           | 220MHz                          |
| LQH31HNR75K03□ | 750nH ±10% | 1MHz                      | 190mA         | 0.79 Ω ±30%   | 60       | 100MHz           | 220MHz                          |
| LQH31HNR88J03□ | 880nH ±5%  | 1MHz                      | 180mA         | 0.86 Ω ±30%   | 60       | 100MHz           | 200MHz                          |
| LQH31HNR88K03□ | 880nH ±10% | 1MHz                      | 180mA         | 0.86 Ω ±30%   | 60       | 100MHz           | 200MHz                          |

Operating Temperature Range (Self-temperature rise is not included): -40°C~+85°C

## ■ Q-Frequency Characteristics (Typ.)



Continued on the following page.

⚠Note • Please read rating and ⚠CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.  
• This catalog has only typical specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

# ■ Reference Data

## LQH31HN\_03

4991A&amp;16197A

| Part Number   | Inductance (nH) | Q (Typ.) |        |        |        |        |
|---------------|-----------------|----------|--------|--------|--------|--------|
|               | 100MHz          | 800MHz   | 900MHz | 1.8GHz | 2.0GHz | 2.4GHz |
| LQH31HN54N□03 | 54              | 2        | 1      | -      | -      | -      |
| LQH31HN95N□03 | 95              | 1        | -      | -      | -      | -      |
| LQH31HNR14□03 | 145             | -        | -      | -      | -      | -      |
| LQH31HNR21□03 | 215             | -        | -      | -      | -      | -      |
| LQH31HNR29□03 | 290             | -        | -      | -      | -      | -      |
| LQH31HNR39□03 | 390             | -        | -      | -      | -      | -      |
| LQH31HNR50□03 | 500             | -        | -      | -      | -      | -      |
| LQH31HNR61□03 | 610             | -        | -      | -      | -      | -      |
| LQH31HNR75□03 | 750             | -        | -      | -      | -      | -      |
| LQH31HNR88□03 | 880             | -        | -      | -      | -      | -      |

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 • This catalog has only typical specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

## ⚠Caution

### ● Rating

1. About the Rated Current  
Do not use products beyond the rated current as this may create excessive heat and deteriorate the insulation resistance.

2. About Excessive Surge Current

Surge current (pulse current or rush current) greater than the specified rated current applied to the product may cause a critical failure, such as an open circuit, burnout caused by excessive temperature rise. Please contact us in advance in case of applying the surge current.

## Notice

### ● Storage and Operating Condition

#### <Operating Environment>

Do not use products in chemical atmosphere such as chlorine gas, acid or sulfide gas.

#### <Storage Requirements>

1. Storage Period

LQG series should be used within 6 months; the other products should be used within 12 months. Check solderability if this period is exceeded.

2. Storage Conditions

- (1) Store products in a warehouse in compliance with the following conditions:

Temperature: -10 to +40 degrees C.

Humidity: 15 to 85% (relative humidity)

Do not subject products to rapid changes in temperature and humidity.

Do not store them in chemical atmosphere such as one containing sulfurous acid gas or alkaline gas.

This will prevent electrode oxidation, which causes poor solderability and possible corrosion of inductors.

- (2) Do not store products in bulk packaging to prevent collision among inductors, which causes core chipping and wire breakage.
- (3) Store products on pallets to protect from humidity, dust, etc.
- (4) Avoid heat shock, vibration, direct sunlight, etc.

### ● Handling

This item is designed to have sufficient strength, but handle with care to avoid chipping or breaking its ceramic structure.

#### LQW\_A/LQW\_H series

- To prevent breaking the wire, avoid touching with sharp material, such as tweezers or the bristles of a cleaning brush, to the wire wound portion.
- To prevent breaking the core, avoid applying excessive mechanical shock to products mounted on the board.
- In some mounting machines, when picking up components, a support pin pushes the components up from the bottom of the base tape. In this case, please remove the support pin. The support pin may damage the components and break the wire.
- In rare cases, the laser recognition cannot recognize this component. Please contact us when you use laser recognition. (There is no problem with the permeation and reflection type.)

#### LQH\_H series

- To prevent breaking the wire, avoid touching with sharp material, such as tweezers or the bristles of a cleaning brush, to the wire wound portion of this product.
- To prevent breaking the core, avoid applying excessive mechanical shock to products mounted on the board.

#### LQG,LQP series (except LQP02T\_02/LQP03T\_02)

- The pattern of the chip Inductors is covered with protective film. Take care to avoid damaging the chip Inductors when handling it with pick-up nozzles, sharp instruments, etc.

#### <Handling>

1. Avoid applying excessive stress to products to prevent damage.
2. Do not touch wire wound with sharp objects such as tweezers to prevent wire breakage.
3. Do not apply excessive force to products mounted on boards to prevent core breakage.

#### <Transportation>

Do not apply excessive vibration or mechanical shock to products.

Continued on the following page. ↗

### <Resin Coating>

When coating products with resin, the relatively high resin curing stress may change inductance values. For exterior coating, select resin carefully so that electrical and mechanical performance of the product is not affected. Prior to use, please evaluate reliability with the product mounted in your application set.

(LQW,LQH series)

An open circuit issue may occur by mechanical stress caused by the resin, amount/cured shape of resin, or operating conditions, etc. Some resins containing impurities or chloride may possibly generate chlorine by hydrolysis under some operating conditions, causing corrosion of the inductor wire and leading to an open circuit.

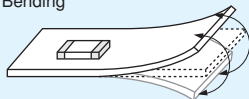
(LQP02T\_02,LQP03T\_02)

When products are coated with resin, please contact us in advance.

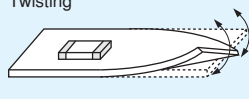
### <Handling of a Substrate>

After mounting products on a substrate, do not apply any stress to the product caused by bending or twisting the substrate when cropping the substrate, inserting and removing a connector from the substrate, or tightening a screw to the substrate. Excessive mechanical stress may cause cracking in the Product.

Bending



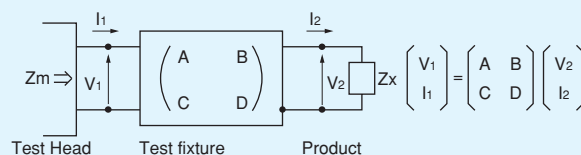
Twisting



## ● Measuring Method

### Measuring Method of Inductance/Q

1. Residual elements and stray elements of test fixtures can be described by F-parameter as shown in the following:



2. The impedance of chip Inductors (chip coils)  $Z_x$  and measured value  $Z_m$  can be described by input/output current/voltage.

$$Z_m = \frac{V_1}{I_1}, \quad Z_x = \frac{V_2}{I_2}$$

3. Thus, the relation between  $Z_x$  and  $Z_m$  is shown in the following:

$$Z_x = \alpha \frac{Z_m - \beta}{1 - Z_m \Gamma} \quad \text{where, } \alpha = D / A = 1, \quad \beta = B / D = Z_{sm} - (1 - Y_{om} Z_{sm}) Z_{ss}, \quad \Gamma = C / A = Y_{om}$$

$Z_{sm}$ : measured impedance of short chip  
 $Z_{ss}$ : residual impedance of short chip\*  
 $Y_{om}$ : measured admittance when opening the fixture)

### \*Residual impedance of short chip

| Residual Impedance | Series                         |
|--------------------|--------------------------------|
| 0nH                | LQG15HS/LQP03TG                |
| 0.110nH            | LQP02TN/LQP02TQ                |
| 0.480nH            | LQP03TN_02                     |
| 0.556nH            | LQG15HN, LQW15A, LQP15M        |
| 0.771nH            | LQG18H, LQP18M, LQW18A, LQW21H |

4.  $L_x$  and  $Q_x$  should be calculated with the following equation.

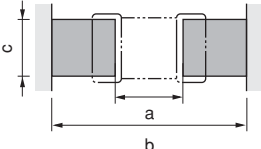
$$L_x = \frac{\text{Im}(Z_x)}{2\pi f}, \quad Q_x = \frac{\text{Im}(Z_x)}{\text{Re}(Z_x)}$$

$L_x$ : Inductance of chip Inductors (chip coils)  
 $Q_x$ : Q of chip Inductors (chip coils)  
 $f$ : Measuring frequency

## 1. Standard Land Pattern Dimensions

A high Q value is achieved when the PCB electrode land pattern is designed so that it does not project beyond the chip Inductors (chip coils) electrode.

Land Pattern + Solder Resist  
Land Pattern  
Solder Resist  
(in mm)

| Series                                                                                                                                                                   | Standard Land Dimensions                                                          |                  |          |          |          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------|----------|----------|----------|
| LQG15H<br>LQG18H<br>LQP02TN<br>LQP02TQ<br>LQP03T<br>LQP15M<br>LQP18M<br>LQW03A<br>LQW04A<br>LQW15A<br>LQW18A<br>LQW21H<br>LQW2BH<br>LQW2BA<br>LQW2UA<br>LQW31H<br>LQH31H |  | Part Number      | a        | b        | c        |
|                                                                                                                                                                          |                                                                                   | LQG15H           | 0.4      | 1.4-1.5  | 0.5-0.6  |
|                                                                                                                                                                          |                                                                                   | LQG18H           | 0.6-0.8  | 1.8-2.2  | 0.6-0.8  |
|                                                                                                                                                                          |                                                                                   | LQP02TN          | 0.16-0.2 | 0.4-0.56 | 0.2-0.23 |
|                                                                                                                                                                          |                                                                                   | LQP02TQ          | 0.2      | 0.56     | 0.2      |
|                                                                                                                                                                          |                                                                                   | LQP03T           | 0.2-0.3  | 0.8-0.9  | 0.2-0.3  |
|                                                                                                                                                                          |                                                                                   | LQP15M           | 0.4      | 1.4-1.5  | 0.5-0.6  |
|                                                                                                                                                                          |                                                                                   | LQP18M           | 0.7-0.9  | 1.8-2.2  | 0.6-0.8  |
|                                                                                                                                                                          |                                                                                   | LQW03A           | 0.23     | 0.65     | 0.4      |
|                                                                                                                                                                          |                                                                                   | LQW04A           | 0.4      | 1.0      | 0.4      |
|                                                                                                                                                                          |                                                                                   | LQW15A_00/10     | 0.5      | 1.2      | 0.65     |
|                                                                                                                                                                          |                                                                                   | LQW15A_80        | 0.6      | 1.42     | 0.66     |
|                                                                                                                                                                          |                                                                                   | LQW18A_00/10     | 0.6-0.8  | 1.9-2.0  | 0.7-1.0  |
|                                                                                                                                                                          |                                                                                   | LQW18A_80        | 0.86     | 2.0      | 1.15     |
|                                                                                                                                                                          |                                                                                   | LQW21H           | 1.0      | 2.6      | 1.2      |
|                                                                                                                                                                          |                                                                                   | LQW2BH           | 0.8      | 3.0      | 1.2      |
|                                                                                                                                                                          |                                                                                   | LQW2BA           | 0.76     | 2.8      | 1.78     |
|                                                                                                                                                                          |                                                                                   | LQW2UA           | 1.27     | 3.3      | 2.54     |
|                                                                                                                                                                          |                                                                                   | LQH31H<br>LQW31H | 1.0      | 4.5      | 1.5      |

Attention should be paid to potential magnetic coupling effects when using the Inductors (coils) as a resonator.

## 2. Standard Soldering Conditions

### (1) Soldering method

Chip Inductors (Chip coils) can be flow or reflow soldered.  
Please contact Murata regarding other soldering methods.

As for LQG, LQP, LQW03A/04A/15A/18A/21H/2BA/2UA series, please use reflow soldering.

Solder: Use Sn-3.0Ag-0.5Cu solder.

Flux: Use rosin-based flux, but not strongly acidic flux (with chlorine content exceeding 0.2wt%).

Do not use water-soluble flux.

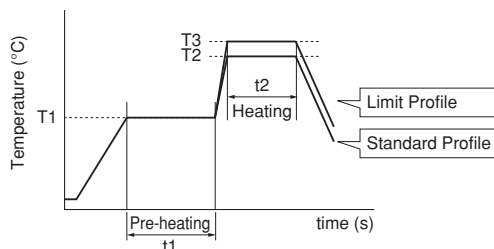
The flux used for LQW03/04/15/18/21/2BA/2UA series should use the rosin-based flux that includes middle activator equivalent to 0.06wt% to 0.1wt% chlorine.

For additional mounting methods, please contact Murata.

Continued on the following page.

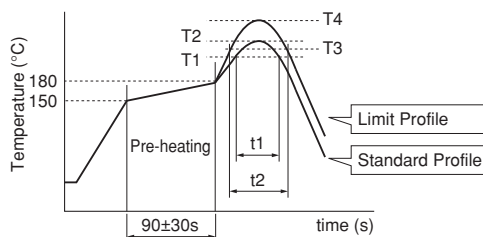
## (2) Soldering profile

- Flow Soldering profile  
(Sn-3.0Ag-0.5Cu solder)



| Series               | Pre-heating |            | Standard Profile |            |               | Limit Profile |            |               |
|----------------------|-------------|------------|------------------|------------|---------------|---------------|------------|---------------|
|                      |             |            | Heating          |            | Cycle of flow | Heating       |            | Cycle of flow |
|                      | Temp. (T1)  | Time. (t1) | Temp. (T2)       | Time. (t2) |               | Temp. (T3)    | Time. (t2) |               |
| LQW2BH/31H<br>LQH31H | 150°C       | 60s min.   | 250°C            | 4 to 6s    | 2 times max.  | 265±3°C       | 5s max.    | 2 times max.  |

- Reflow Soldering profile  
(Sn-3.0Ag-0.5Cu solder)



| Series                                                                                           | Standard Profile |            |                       |                 | Limit Profile |            |                       |                 |
|--------------------------------------------------------------------------------------------------|------------------|------------|-----------------------|-----------------|---------------|------------|-----------------------|-----------------|
|                                                                                                  | Heating          |            | Peak temperature (T2) | Cycle of reflow | Heating       |            | Peak temperature (T4) | Cycle of reflow |
|                                                                                                  | Temp. (T1)       | Time. (t1) |                       |                 | Temp. (T3)    | Time. (t2) |                       |                 |
| LQG15H/18H<br>LQW03A/04A/15A/18A/21H<br>LQW2BA/2UA<br>LQP02T/03T/15M/18M<br>LQW2BH/31H<br>LQH31H | 220°C            | 30 to 60s  | 245±3°C               | 2 times max.    | 230°C         | 60s max.   | 260°C/10s             | 2 times max.    |

## (3) Reworking with Soldering Iron

\*Except for LQP02T Series

Preheating at 150°C for 1 minute is required. Do not directly touch the ceramic element with the tip of the soldering iron. The reworking soldering conditions are as follows:

Soldering iron power output: 80W max.

Temperature of soldering iron tip: 350°C

Diameter of soldering iron end: 3.0mm max.

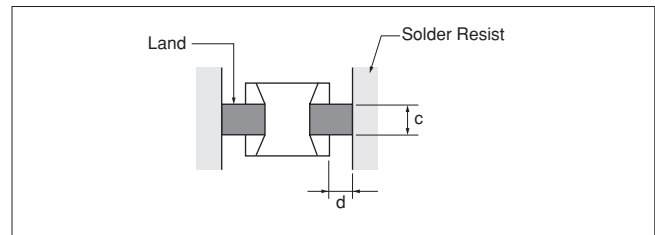
Soldering time: within 3 s

Continued on the following page.

### 3. Mounting Instructions

#### (1) Land Pattern Dimensions

Large lands reduce Q of the mounted chip. Also, large protruding land areas (bordered by lines having dimensions 'c' and 'd' shown) cause floating and electrode leaching.



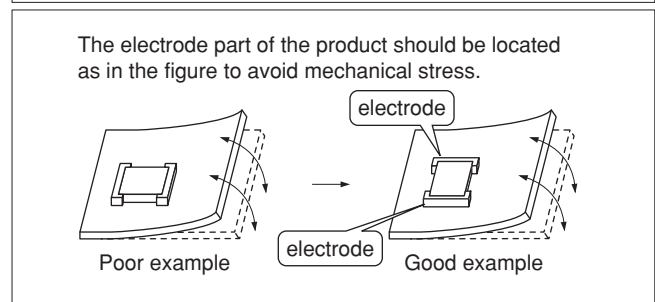
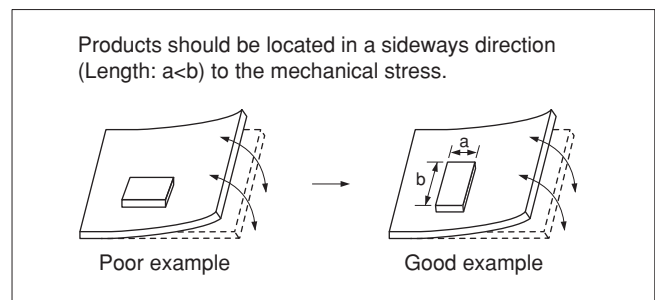
#### (2) Land Pattern Designing (LQW series)

Please follow the recommended patterns.

Otherwise, their performance, which includes electrical performance or solderability, may be affected, or result in "position shift" in the soldering process.

#### (3) PCB Warping

PCB should be designed so that products are not subjected to the mechanical stress caused by warping the board.



Continued on the following page.

#### (4) Amount of Solder Paste

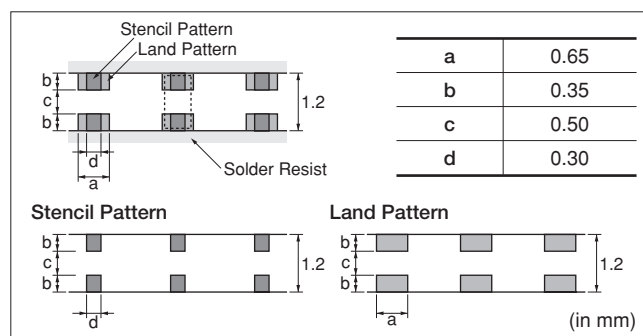
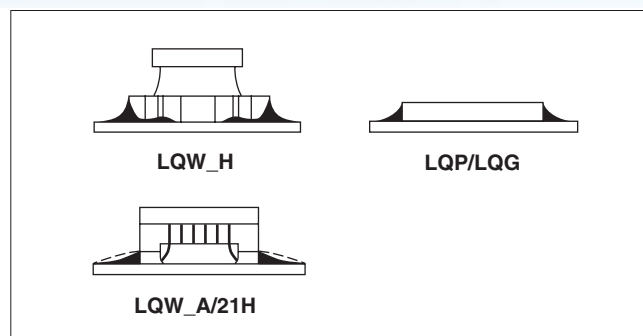
Excessive solder causes electrode corrosion, while insufficient solder causes low electrode bonding strength. Adjust the amount of solder paste as shown on the right so that solder is applied.

##### ● Guideline of solder paste thickness

- LQP (Except for LQP02T), LQG, LQW15AN\_00/LQW15AN\_10/LQW18AN/LQW21H/LQW2BA/LQW2UA: 100 to 150μm
- LQP02T: 50 to 80μm
- LQW03A/LQW04A: 80 to 100μm
- LQW15AN\_80: 50 to 100μm
- LQW\_H: 200 to 300μm

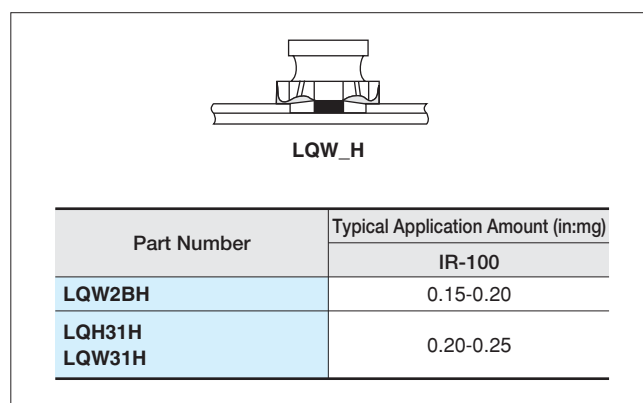
#### LQW15A Series:

Too much solder may cause slant or rotation of the chip at the time of solder melting. Please reduce the amount of solder by using a smaller solder area than the land pattern, as shown in the figure at right.



#### (5) Amount of Adhesive

If too much adhesive is applied, then it may overflow into the land or termination areas and yield poor solderability. In contrast, if insufficient adhesive is applied, or if the adhesive is not sufficiently hardened, then the chip may become detached during flow soldering. Apply the adhesive in accordance with the conditions shown in the chart.



## 4. Cleaning

The following conditions should be observed when cleaning chip inductors (chip coils):

- (1) Cleaning Temperature: 60°C max. (40°C max. for alcohol cleaning agents)
- (2) Ultrasonic
  - Output: 20W/l max.
  - Duration: 5 minutes max.
  - Frequency: 28 to 40kHz
  - Care should be taken not to cause resonance of the PCB and mounted products.
- (3) Cleaning agent
 

The following cleaning agents have been tested on individual components. Evaluation in complete assembly should be done prior to production.

(a) Alcohol cleaning agents

Isopropyl alcohol (IPA)

(b) Aqueous cleaning agents

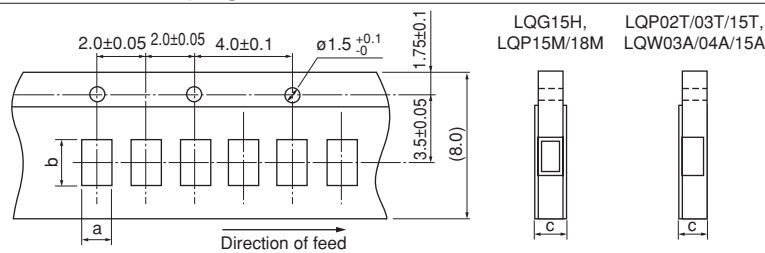
Pine Alpha ST-100S

(4) Ensure that flux residue is completely removed.

Component should be thoroughly dried after aqueous agents have been removed with deionized water.

For additional cleaning methods, please contact Murata.

## Minimum Quantity and 8mm Width Taping Dimensions



Paper Tape

| Part Number  | Dimensions     |           | Total Thickness of Tape | Packaging Code (Minimum Qty. [pcs.]) |             |          |
|--------------|----------------|-----------|-------------------------|--------------------------------------|-------------|----------|
|              | a              | b         |                         | ø180mm reel                          | ø330mm reel | Bulk     |
| LQG15H       | 0.62           | 1.12      | 0.8 max.                | D [10000]                            | J [50000]   | B [1000] |
| LQP02TN      | 0.24           | 0.47      | 0.39 max.               | D [20000]                            | -           | B [500]  |
| LQP02TQ      | 0.24           | 0.45      | 0.39 max.               | D [20000]                            | -           | B [500]  |
| LQP03T *1    | 0.35           | 0.65/0.67 | 0.55 max.               | D [15000]                            | J [50000]   | B [500]  |
| LQP15M       | 0.70           | 1.20      | 0.8 max.                | D [10000]                            | J [50000]   | B [500]  |
| LQP18M       | 1.19           | 2.0       | 0.8 max.                | D [4000]                             | J [10000]   | B [500]  |
| LQW03A       | 0.52           | 0.65      | 0.75 max.               | D [10000]                            | -           | -        |
| LQW04A       | 0.50           | 0.905     | 0.75 max.               | D [10000]                            | -           | B [500]  |
| LQW15A_00 *2 | 0.64/0.66/0.69 | 1.18      | 0.8 max.                | D [10000]                            | -           | B [500]  |
| LQW15A_10 *3 | 0.66/0.69      | 1.18      | 0.8 max.                | D [10000]                            | -           | B [500]  |
| LQW15A_80    | 0.75           | 1.18      | 0.8 max.                | D [10000]                            | -           | B [500]  |

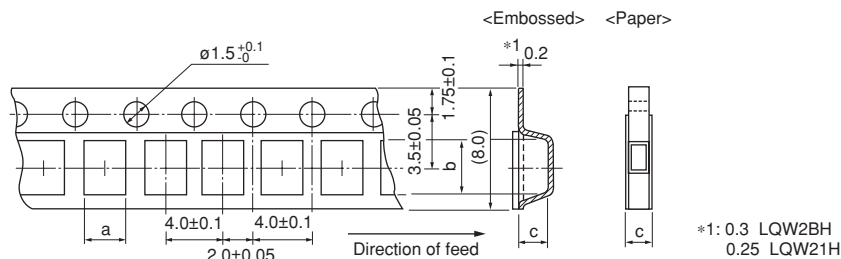
\*1 0.67 (LQP03TG · LQP03TN\_02; 0.6-62nH, 130-270nH)  
0.65 (LQP03TN\_02; 68-120nH)

\*3 0.69 (1.3nH)  
0.66 (2.2-5.6nH)

\*2 0.69 (1.5-2.7nH, 3.9-4.7nH, 5.8-6.8nH, 8.2-9.5nH, 11nH, 12nH, 15nH)  
0.66 (2.9nH, 5.1nH, 7.3nH, 7.5nH, 10nH, 13nH, 16-23nH, 100nH, 120nH)  
0.64 (24-91nH)

(in mm)

## Minimum Quantity and 8mm Width Taping Dimensions



Dimension of the cavity of embossed tape is measured at the bottom side.

Paper Tape

| Part Number | Dimensions |      | Total Thickness of Tape | Packaging Code (Minimum Qty. [pcs.]) |             |          |
|-------------|------------|------|-------------------------|--------------------------------------|-------------|----------|
|             | a          | b    |                         | ø180mm reel                          | ø330mm reel | Bulk     |
| LQG18H      | 1.05       | 1.85 | 1.1 max.                | D [4000]                             | J [10000]   | B [1000] |
| LQW18A_00   | 1.0        | 1.8  | 1.1 max.                | D [4000]                             | J [10000]   | B [500]  |
| LQW18A_10   | 1.1        | 1.9  | 1.1 max.                | D [4000]                             | J [10000]   | B [500]  |
| LQW18A_80   | 1.15       | 1.9  | 1.1 max.                | D [4000]                             | J [10000]   | B [500]  |

Embossed Tape

| Part Number    | Dimensions |     | Depth of Cavity | Packaging Code (Minimum Qty. [pcs.]) |             |         |
|----------------|------------|-----|-----------------|--------------------------------------|-------------|---------|
|                | a          | b   |                 | ø180mm reel                          | ø330mm reel | Bulk    |
| LQH31H, LQW31H | 1.9        | 3.6 | 2.0             | L [2000]                             | K [7500]    | -       |
| LQW21H         | 1.55       | 2.3 | 1.1             | L [3000]                             | -           | B [500] |
| LQW2BH         | 1.75       | 2.3 | 2.0             | L [2000]                             | K [7500]    | -       |
| LQW2BA         | 1.8        | 2.3 | 1.65            | L [2000]                             | -           | -       |
| LQW2UA         | 2.7        | 2.8 | 2.15            | L [2000]                             | -           | -       |

(in mm)

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• This catalog has only typical specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

## ■ Holder Type



### ●EKLmq15sc-kit (RF Inductors Multilayer Type)

| No. | Part Number   | Quantity (pcs.) | Inductance |           | Q (min.) | DC Resistance (Ω) max. | Rated Current (mA) |
|-----|---------------|-----------------|------------|-----------|----------|------------------------|--------------------|
|     |               |                 | Nominal    | Tolerance |          |                        |                    |
| 1   | LQG15HS1N0S02 | 10              | 1.0nH      | ±0.3nH    | 8        | 0.07                   | 300                |
| 2   | LQG15HS1N1S02 | 10              | 1.1nH      | ±0.3nH    | 8        | 0.09                   | 300                |
| 3   | LQG15HS1N2S02 | 10              | 1.2nH      | ±0.3nH    | 8        | 0.09                   | 300                |
| 4   | LQG15HS1N3S02 | 10              | 1.3nH      | ±0.3nH    | 8        | 0.09                   | 300                |
| 5   | LQG15HS1N5S02 | 10              | 1.5nH      | ±0.3nH    | 8        | 0.10                   | 300                |
| 6   | LQG15HS1N6S02 | 10              | 1.6nH      | ±0.3nH    | 8        | 0.10                   | 300                |
| 7   | LQG15HS1N8S02 | 10              | 1.8nH      | ±0.3nH    | 8        | 0.10                   | 300                |
| 8   | LQG15HS2N0S02 | 10              | 2.0nH      | ±0.3nH    | 8        | 0.10                   | 300                |
| 9   | LQG15HS2N2S02 | 10              | 2.2nH      | ±0.3nH    | 8        | 0.12                   | 300                |
| 10  | LQG15HS2N4S02 | 10              | 2.4nH      | ±0.3nH    | 8        | 0.15                   | 300                |
| 11  | LQG15HS2N7S02 | 10              | 2.7nH      | ±0.3nH    | 8        | 0.15                   | 300                |
| 12  | LQG15HS3N0S02 | 10              | 3.0nH      | ±0.3nH    | 8        | 0.17                   | 300                |
| 13  | LQG15HS3N3S02 | 10              | 3.3nH      | ±0.3nH    | 8        | 0.17                   | 300                |
| 14  | LQG15HS3N6S02 | 10              | 3.6nH      | ±0.3nH    | 8        | 0.18                   | 300                |
| 15  | LQG15HS3N9S02 | 10              | 3.9nH      | ±0.3nH    | 8        | 0.18                   | 300                |
| 16  | LQG15HS4N3S02 | 10              | 4.3nH      | ±0.3nH    | 8        | 0.18                   | 300                |
| 17  | LQG15HS4N7S02 | 10              | 4.7nH      | ±0.3nH    | 8        | 0.18                   | 300                |
| 18  | LQG15HS5N1S02 | 10              | 5.1nH      | ±0.3nH    | 8        | 0.20                   | 300                |
| 19  | LQG15HS5N6S02 | 10              | 5.6nH      | ±0.3nH    | 8        | 0.20                   | 300                |
| 20  | LQG15HS6N2S02 | 10              | 6.2nH      | ±0.3nH    | 8        | 0.22                   | 300                |
| 21  | LQG15HS6N8J02 | 10              | 6.8nH      | ±5%       | 8        | 0.24                   | 300                |
| 22  | LQG15HS7N5J02 | 10              | 7.5nH      | ±5%       | 8        | 0.24                   | 300                |
| 23  | LQG15HS8N2J02 | 10              | 8.2nH      | ±5%       | 8        | 0.24                   | 300                |
| 24  | LQG15HS9N1J02 | 10              | 9.1nH      | ±5%       | 8        | 0.26                   | 300                |
| 25  | LQG15HS10NJ02 | 10              | 10nH       | ±5%       | 8        | 0.26                   | 300                |
| 26  | LQG15HS12NJ02 | 10              | 12nH       | ±5%       | 8        | 0.28                   | 300                |
| 27  | LQG15HS15NJ02 | 10              | 15nH       | ±5%       | 8        | 0.32                   | 300                |
| 28  | LQG15HS18NJ02 | 10              | 18nH       | ±5%       | 8        | 0.36                   | 300                |
| 29  | LQG15HS22NJ02 | 10              | 22nH       | ±5%       | 8        | 0.42                   | 300                |
| 30  | LQG15HS27NJ02 | 10              | 27nH       | ±5%       | 8        | 0.46                   | 300                |
| 31  | LQG15HS33NJ02 | 10              | 33nH       | ±5%       | 8        | 0.58                   | 200                |
| 32  | LQG15HS39NJ02 | 10              | 39nH       | ±5%       | 8        | 0.65                   | 200                |
| 33  | LQG15HS47NJ02 | 10              | 47nH       | ±5%       | 8        | 0.72                   | 200                |
| 34  | LQG15HS56NJ02 | 10              | 56nH       | ±5%       | 8        | 0.82                   | 200                |
| 35  | LQG15HS68NJ02 | 10              | 68nH       | ±5%       | 8        | 0.92                   | 180                |
| 36  | LQG15HS82NJ02 | 10              | 82nH       | ±5%       | 8        | 1.20                   | 150                |
| 37  | LQG15HSR10J02 | 10              | 100nH      | ±5%       | 8        | 1.25                   | 150                |
| 38  | LQG15HSR12J02 | 10              | 120nH      | ±5%       | 8        | 1.30                   | 150                |
| 39  | LQG15HSR15J02 | 10              | 150nH      | ±5%       | 8        | 1.99                   | 140                |
| 40  | LQG15HSR18J02 | 10              | 180nH      | ±5%       | 8        | 3.38                   | 130                |
| 41  | LQG15HSR22J02 | 10              | 220nH      | ±5%       | 8        | 3.77                   | 120                |
| 42  | LQG15HSR27J02 | 10              | 270nH      | ±5%       | 8        | 4.94                   | 110                |

### ●EKLmq18b-kit (RF Inductors Multilayer Type)

| No. | Part Number   | Quantity (pcs.) | Inductance |           | Q (min.) | DC Resistance (Ω) max. | Rated Current (mA) |
|-----|---------------|-----------------|------------|-----------|----------|------------------------|--------------------|
|     |               |                 | Nominal    | Tolerance |          |                        |                    |
| 1   | LQG18HN1N2S00 | 10              | 1.2nH      | ±0.3nH    | 12       | 0.10                   | 500                |
| 2   | LQG18HN1N5S00 | 10              | 1.5nH      | ±0.3nH    | 12       | 0.10                   | 500                |
| 3   | LQG18HN1N8S00 | 10              | 1.8nH      | ±0.3nH    | 12       | 0.10                   | 500                |
| 4   | LQG18HN2N2S00 | 10              | 2.2nH      | ±0.3nH    | 12       | 0.10                   | 500                |
| 5   | LQG18HN2N7S00 | 10              | 2.7nH      | ±0.3nH    | 12       | 0.15                   | 500                |
| 6   | LQG18HN3N3S00 | 10              | 3.3nH      | ±0.3nH    | 12       | 0.15                   | 500                |
| 7   | LQG18HN3N9S00 | 10              | 3.9nH      | ±0.3nH    | 12       | 0.15                   | 450                |
| 8   | LQG18HN4N7S00 | 10              | 4.7nH      | ±0.3nH    | 12       | 0.20                   | 450                |
| 9   | LQG18HN5N6S00 | 10              | 5.6nH      | ±0.3nH    | 12       | 0.20                   | 430                |

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| No. | Part Number   | Quantity (pcs.) | Inductance |           | Q (min.) | DC Resistance (Ω) max. | Rated Current (mA) |
|-----|---------------|-----------------|------------|-----------|----------|------------------------|--------------------|
|     |               |                 | Nominal    | Tolerance |          |                        |                    |
| 10  | LQG18HN6N8J00 | 10              | 6.8nH      | ±5%       | 12       | 0.25                   | 430                |
| 11  | LQG18HN8N2J00 | 10              | 8.2nH      | ±5%       | 12       | 0.25                   | 400                |
| 12  | LQG18HN10NJ00 | 10              | 10nH       | ±5%       | 12       | 0.30                   | 400                |
| 13  | LQG18HN12NJ00 | 10              | 12nH       | ±5%       | 12       | 0.35                   | 400                |
| 14  | LQG18HN15NJ00 | 10              | 15nH       | ±5%       | 12       | 0.40                   | 350                |
| 15  | LQG18HN18NJ00 | 10              | 18nH       | ±5%       | 12       | 0.45                   | 350                |
| 16  | LQG18HN22NJ00 | 10              | 22nH       | ±5%       | 12       | 0.50                   | 300                |
| 17  | LQG18HN27NJ00 | 10              | 27nH       | ±5%       | 12       | 0.55                   | 300                |
| 18  | LQG18HN33NJ00 | 10              | 33nH       | ±5%       | 12       | 0.60                   | 300                |
| 19  | LQG18HN39NJ00 | 10              | 39nH       | ±5%       | 12       | 0.65                   | 300                |
| 20  | LQG18HN47NJ00 | 10              | 47nH       | ±5%       | 12       | 0.70                   | 300                |
| 21  | LQG18HN56NJ00 | 10              | 56nH       | ±5%       | 12       | 0.75                   | 300                |
| 22  | LQG18HN68NJ00 | 10              | 68nH       | ±5%       | 12       | 0.80                   | 300                |
| 23  | LQG18HN82NJ00 | 10              | 82nH       | ±5%       | 12       | 0.85                   | 300                |
| 24  | LQG18HNR10J00 | 10              | 100nH      | ±5%       | 12       | 0.90                   | 300                |

### ●EKLMP02F-KIT (RF Inductors Film Type)

| No. | Part Number   | Quantity (pcs.) | Inductance |           | Q (min.) | DC Resistance (Ω) max. | Rated Current (mA) |
|-----|---------------|-----------------|------------|-----------|----------|------------------------|--------------------|
|     |               |                 | Nominal    | Tolerance |          |                        |                    |
| 1   | LQP02TN0N2B02 | 10              | 0.2nH      | ±0.1nH    | -        | 0.50                   | 320                |
| 2   | LQP02TN0N3B02 | 10              | 0.3nH      | ±0.1nH    | -        | 0.50                   | 320                |
| 3   | LQP02TN0N4B02 | 10              | 0.4nH      | ±0.1nH    | 8        | 0.50                   | 320                |
| 4   | LQP02TN0N5B02 | 10              | 0.5nH      | ±0.1nH    | 8        | 0.50                   | 320                |
| 5   | LQP02TN0N6B02 | 10              | 0.6nH      | ±0.1nH    | 8        | 0.50                   | 320                |
| 6   | LQP02TN0N7B02 | 10              | 0.7nH      | ±0.1nH    | 8        | 0.50                   | 320                |
| 7   | LQP02TN0N8B02 | 10              | 0.8nH      | ±0.1nH    | 8        | 0.50                   | 320                |
| 8   | LQP02TN0N9B02 | 10              | 0.9nH      | ±0.1nH    | 8        | 0.50                   | 320                |
| 9   | LQP02TN1N0B02 | 10              | 1.0nH      | ±0.1nH    | 8        | 0.60                   | 220                |
| 10  | LQP02TN1N1B02 | 10              | 1.1nH      | ±0.1nH    | 8        | 0.60                   | 220                |
| 11  | LQP02TN1N2B02 | 10              | 1.2nH      | ±0.1nH    | 8        | 0.60                   | 220                |
| 12  | LQP02TN1N3B02 | 10              | 1.3nH      | ±0.1nH    | 8        | 0.60                   | 220                |
| 13  | LQP02TN1N4B02 | 10              | 1.4nH      | ±0.1nH    | 8        | 0.60                   | 220                |
| 14  | LQP02TN1N5B02 | 10              | 1.5nH      | ±0.1nH    | 8        | 0.60                   | 220                |
| 15  | LQP02TN1N6B02 | 10              | 1.6nH      | ±0.1nH    | 8        | 0.60                   | 220                |
| 16  | LQP02TN1N7B02 | 10              | 1.7nH      | ±0.1nH    | 8        | 0.70                   | 200                |
| 17  | LQP02TN1N8B02 | 10              | 1.8nH      | ±0.1nH    | 8        | 0.70                   | 200                |
| 18  | LQP02TN1N9B02 | 10              | 1.9nH      | ±0.1nH    | 8        | 0.75                   | 200                |
| 19  | LQP02TN2N0B02 | 10              | 2.0nH      | ±0.1nH    | 8        | 0.75                   | 200                |
| 20  | LQP02TN2N1B02 | 10              | 2.1nH      | ±0.1nH    | 8        | 0.75                   | 200                |
| 21  | LQP02TN2N2B02 | 10              | 2.2nH      | ±0.1nH    | 8        | 0.75                   | 200                |
| 22  | LQP02TN2N3B02 | 10              | 2.3nH      | ±0.1nH    | 8        | 0.75                   | 200                |
| 23  | LQP02TN2N4B02 | 10              | 2.4nH      | ±0.1nH    | 8        | 0.75                   | 200                |
| 24  | LQP02TN2N5B02 | 10              | 2.5nH      | ±0.1nH    | 8        | 0.80                   | 200                |
| 25  | LQP02TN2N6B02 | 10              | 2.6nH      | ±0.1nH    | 8        | 0.80                   | 200                |
| 26  | LQP02TN2N7B02 | 10              | 2.7nH      | ±0.1nH    | 8        | 0.80                   | 200                |
| 27  | LQP02TN2N8B02 | 10              | 2.8nH      | ±0.1nH    | 8        | 1.10                   | 200                |
| 28  | LQP02TN2N9B02 | 10              | 2.9nH      | ±0.1nH    | 8        | 1.10                   | 200                |
| 29  | LQP02TN3N0B02 | 10              | 3.0nH      | ±0.1nH    | 8        | 1.10                   | 200                |
| 30  | LQP02TN3N1B02 | 10              | 3.1nH      | ±0.1nH    | 8        | 1.30                   | 180                |
| 31  | LQP02TN3N2B02 | 10              | 3.2nH      | ±0.1nH    | 8        | 1.30                   | 180                |
| 32  | LQP02TN3N3B02 | 10              | 3.3nH      | ±0.1nH    | 8        | 1.30                   | 180                |
| 33  | LQP02TN3N4B02 | 10              | 3.4nH      | ±0.1nH    | 8        | 1.30                   | 180                |
| 34  | LQP02TN3N5B02 | 10              | 3.5nH      | ±0.1nH    | 8        | 1.30                   | 180                |
| 35  | LQP02TN3N6B02 | 10              | 3.6nH      | ±0.1nH    | 8        | 1.30                   | 180                |
| 36  | LQP02TN3N7B02 | 10              | 3.7nH      | ±0.1nH    | 8        | 1.30                   | 180                |
| 37  | LQP02TN3N8B02 | 10              | 3.8nH      | ±0.1nH    | 8        | 1.30                   | 180                |
| 38  | LQP02TN3N9B02 | 10              | 3.9nH      | ±0.1nH    | 8        | 1.30                   | 180                |
| 39  | LQP02TN4N0B02 | 10              | 4.0nH      | ±0.1nH    | 8        | 1.30                   | 180                |
| 40  | LQP02TN4N1B02 | 10              | 4.1nH      | ±0.1nH    | 8        | 1.30                   | 180                |
| 41  | LQP02TN4N2B02 | 10              | 4.2nH      | ±0.1nH    | 8        | 1.30                   | 180                |
| 42  | LQP02TN4N3H02 | 10              | 4.3nH      | ±3%       | 8        | 1.30                   | 180                |
| 43  | LQP02TN4N7H02 | 10              | 4.7nH      | ±3%       | 8        | 1.50                   | 160                |
| 44  | LQP02TN5N1H02 | 10              | 5.1nH      | ±3%       | 8        | 1.50                   | 160                |
| 45  | LQP02TN5N6H02 | 10              | 5.6nH      | ±3%       | 8        | 1.80                   | 140                |
| 46  | LQP02TN6N2H02 | 10              | 6.2nH      | ±3%       | 8        | 1.80                   | 140                |

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| No. | Part Number   | Quantity (pcs.) | Inductance |           | Q (min.) | DC Resistance (Ω) max. | Rated Current (mA) |
|-----|---------------|-----------------|------------|-----------|----------|------------------------|--------------------|
|     |               |                 | Nominal    | Tolerance |          |                        |                    |
| 47  | LQP02TN6N8H02 | 10              | 6.8nH      | ±3%       | 8        | 2.00                   | 140                |
| 48  | LQP02TN7N5H02 | 10              | 7.5nH      | ±3%       | 8        | 2.00                   | 140                |
| 49  | LQP02TN8N2H02 | 10              | 8.2nH      | ±3%       | 8        | 2.10                   | 140                |
| 50  | LQP02TN9N1H02 | 10              | 9.1nH      | ±3%       | 8        | 2.10                   | 140                |
| 51  | LQP02TN10NH02 | 10              | 10nH       | ±3%       | 8        | 2.50                   | 140                |
| 52  | LQP02TN11NH02 | 10              | 11nH       | ±3%       | 7        | 2.80                   | 140                |
| 53  | LQP02TN12NH02 | 10              | 12nH       | ±3%       | 7        | 2.80                   | 140                |
| 54  | LQP02TN13NH02 | 10              | 13nH       | ±3%       | 7        | 3.20                   | 140                |
| 55  | LQP02TN15NH02 | 10              | 15nH       | ±3%       | 7        | 3.20                   | 140                |
| 56  | LQP02TN16NH02 | 10              | 16nH       | ±3%       | 7        | 3.50                   | 140                |
| 57  | LQP02TN18NH02 | 10              | 18nH       | ±3%       | 7        | 3.50                   | 140                |
| 58  | LQP02TN20NH02 | 10              | 20nH       | ±3%       | 6        | 5.00                   | 100                |

## ●EKLMP3GC-KIT (RF Inductors Film Type)

| No. | Part Number   | Quantity (pcs.) | Inductance |           | Q (min.) | DC Resistance (Ω) max. | Rated Current (mA) |
|-----|---------------|-----------------|------------|-----------|----------|------------------------|--------------------|
|     |               |                 | Nominal    | Tolerance |          |                        |                    |
| 1   | LQP03TG0N6B02 | 10              | 0.6nH      | ±0.1nH    | 11       | 0.08                   | 850                |
| 2   | LQP03TG0N7B02 | 10              | 0.7nH      | ±0.1nH    | 12       | 0.10                   | 750                |
| 3   | LQP03TG0N8B02 | 10              | 0.8nH      | ±0.1nH    | 12       | 0.10                   | 750                |
| 4   | LQP03TG0N9B02 | 10              | 0.9nH      | ±0.1nH    | 12       | 0.12                   | 700                |
| 5   | LQP03TG1N0B02 | 10              | 1.0nH      | ±0.1nH    | 12       | 0.15                   | 600                |
| 6   | LQP03TG1N1B02 | 10              | 1.1nH      | ±0.1nH    | 12       | 0.15                   | 600                |
| 7   | LQP03TG1N2B02 | 10              | 1.2nH      | ±0.1nH    | 13       | 0.15                   | 600                |
| 8   | LQP03TG1N3B02 | 10              | 1.3nH      | ±0.1nH    | 13       | 0.15                   | 600                |
| 9   | LQP03TG1N4B02 | 10              | 1.4nH      | ±0.1nH    | 13       | 0.15                   | 600                |
| 10  | LQP03TG1N5B02 | 10              | 1.5nH      | ±0.1nH    | 13       | 0.15                   | 600                |
| 11  | LQP03TG1N6B02 | 10              | 1.6nH      | ±0.1nH    | 13       | 0.15                   | 600                |
| 12  | LQP03TG1N7B02 | 10              | 1.7nH      | ±0.1nH    | 13       | 0.20                   | 500                |
| 13  | LQP03TG1N8B02 | 10              | 1.8nH      | ±0.1nH    | 13       | 0.20                   | 500                |
| 14  | LQP03TG1N9B02 | 10              | 1.9nH      | ±0.1nH    | 13       | 0.25                   | 450                |
| 15  | LQP03TG2N0B02 | 10              | 2.0nH      | ±0.1nH    | 13       | 0.25                   | 450                |
| 16  | LQP03TG2N1B02 | 10              | 2.1nH      | ±0.1nH    | 13       | 0.25                   | 450                |
| 17  | LQP03TG2N2B02 | 10              | 2.2nH      | ±0.1nH    | 13       | 0.25                   | 450                |
| 18  | LQP03TG2N3B02 | 10              | 2.3nH      | ±0.1nH    | 13       | 0.25                   | 450                |
| 19  | LQP03TG2N4B02 | 10              | 2.4nH      | ±0.1nH    | 13       | 0.25                   | 450                |
| 20  | LQP03TG2N5B02 | 10              | 2.5nH      | ±0.1nH    | 13       | 0.25                   | 450                |
| 21  | LQP03TG2N6B02 | 10              | 2.6nH      | ±0.1nH    | 13       | 0.25                   | 450                |
| 22  | LQP03TG2N7B02 | 10              | 2.7nH      | ±0.1nH    | 13       | 0.25                   | 450                |
| 23  | LQP03TG2N8B02 | 10              | 2.8nH      | ±0.1nH    | 13       | 0.25                   | 450                |
| 24  | LQP03TG2N9B02 | 10              | 2.9nH      | ±0.1nH    | 13       | 0.25                   | 450                |
| 25  | LQP03TG3N0B02 | 10              | 3.0nH      | ±0.1nH    | 13       | 0.25                   | 450                |
| 26  | LQP03TG3N1B02 | 10              | 3.1nH      | ±0.1nH    | 13       | 0.32                   | 400                |
| 27  | LQP03TG3N2B02 | 10              | 3.2nH      | ±0.1nH    | 13       | 0.32                   | 400                |
| 28  | LQP03TG3N3B02 | 10              | 3.3nH      | ±0.1nH    | 13       | 0.32                   | 400                |
| 29  | LQP03TG3N4B02 | 10              | 3.4nH      | ±0.1nH    | 13       | 0.35                   | 350                |
| 30  | LQP03TG3N5B02 | 10              | 3.5nH      | ±0.1nH    | 13       | 0.35                   | 350                |
| 31  | LQP03TG3N6B02 | 10              | 3.6nH      | ±0.1nH    | 13       | 0.35                   | 350                |
| 32  | LQP03TG3N7B02 | 10              | 3.7nH      | ±0.1nH    | 13       | 0.35                   | 350                |
| 33  | LQP03TG3N8B02 | 10              | 3.8nH      | ±0.1nH    | 13       | 0.35                   | 350                |
| 34  | LQP03TG3N9B02 | 10              | 3.9nH      | ±0.1nH    | 13       | 0.35                   | 350                |
| 35  | LQP03TG4N3H02 | 10              | 4.3nH      | ±3%       | 13       | 0.58                   | 300                |
| 36  | LQP03TG4N7H02 | 10              | 4.7nH      | ±3%       | 12       | 0.72                   | 250                |
| 37  | LQP03TG5N1H02 | 10              | 5.1nH      | ±3%       | 12       | 0.72                   | 250                |
| 38  | LQP03TG5N6H02 | 10              | 5.6nH      | ±3%       | 12       | 0.88                   | 250                |
| 39  | LQP03TG6N2H02 | 10              | 6.2nH      | ±3%       | 12       | 1.15                   | 200                |
| 40  | LQP03TG6N8H02 | 10              | 6.8nH      | ±3%       | 12       | 1.15                   | 200                |
| 41  | LQP03TG7N5H02 | 10              | 7.5nH      | ±3%       | 12       | 1.22                   | 200                |
| 42  | LQP03TG8N2H02 | 10              | 8.2nH      | ±3%       | 12       | 1.40                   | 200                |
| 43  | LQP03TG9N1H02 | 10              | 9.1nH      | ±3%       | 11       | 1.40                   | 200                |
| 44  | LQP03TG10NH02 | 10              | 10nH       | ±3%       | 11       | 1.52                   | 190                |
| 45  | LQP03TG12NH02 | 10              | 12nH       | ±3%       | 11       | 1.78                   | 180                |
| 46  | LQP03TG15NH02 | 10              | 15nH       | ±3%       | 11       | 1.90                   | 170                |
| 47  | LQP03TG18NH02 | 10              | 18nH       | ±3%       | 11       | 2.28                   | 160                |
| 48  | LQP03TG22NH02 | 10              | 22nH       | ±3%       | 9        | 2.85                   | 140                |

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**●EKLMP3AB-KIT (RF Inductors Film Type)**

| No. | Part Number   | Quantity (pcs.) | Inductance |           | Q (min.) | DC Resistance (Ω) max. | Rated Current (mA) |
|-----|---------------|-----------------|------------|-----------|----------|------------------------|--------------------|
|     |               |                 | Nominal    | Tolerance |          |                        |                    |
| 1   | LQP03TN0N6B02 | 10              | 0.6nH      | ±0.1nH    | 14       | 0.07                   | 850                |
| 2   | LQP03TN0N7B02 | 10              | 0.7nH      | ±0.1nH    | 14       | 0.08                   | 800                |
| 3   | LQP03TN0N8B02 | 10              | 0.8nH      | ±0.1nH    | 14       | 0.08                   | 800                |
| 4   | LQP03TN0N9B02 | 10              | 0.9nH      | ±0.1nH    | 14       | 0.10                   | 750                |
| 5   | LQP03TN1N0B02 | 10              | 1.0nH      | ±0.1nH    | 14       | 0.10                   | 750                |
| 6   | LQP03TN1N1B02 | 10              | 1.1nH      | ±0.1nH    | 14       | 0.10                   | 750                |
| 7   | LQP03TN1N2B02 | 10              | 1.2nH      | ±0.1nH    | 14       | 0.10                   | 750                |
| 8   | LQP03TN1N3B02 | 10              | 1.3nH      | ±0.1nH    | 14       | 0.15                   | 600                |
| 9   | LQP03TN1N4B02 | 10              | 1.4nH      | ±0.1nH    | 14       | 0.15                   | 600                |
| 10  | LQP03TN1N5B02 | 10              | 1.5nH      | ±0.1nH    | 14       | 0.15                   | 600                |
| 11  | LQP03TN1N6B02 | 10              | 1.6nH      | ±0.1nH    | 14       | 0.15                   | 600                |
| 12  | LQP03TN1N7B02 | 10              | 1.7nH      | ±0.1nH    | 14       | 0.15                   | 600                |
| 13  | LQP03TN1N8B02 | 10              | 1.8nH      | ±0.1nH    | 14       | 0.15                   | 600                |
| 14  | LQP03TN1N9B02 | 10              | 1.9nH      | ±0.1nH    | 14       | 0.15                   | 600                |
| 15  | LQP03TN2N0B02 | 10              | 2.0nH      | ±0.1nH    | 14       | 0.15                   | 600                |
| 16  | LQP03TN2N1B02 | 10              | 2.1nH      | ±0.1nH    | 14       | 0.15                   | 600                |
| 17  | LQP03TN2N2B02 | 10              | 2.2nH      | ±0.1nH    | 14       | 0.15                   | 600                |
| 18  | LQP03TN2N3B02 | 10              | 2.3nH      | ±0.1nH    | 14       | 0.20                   | 500                |
| 19  | LQP03TN2N4B02 | 10              | 2.4nH      | ±0.1nH    | 14       | 0.20                   | 500                |
| 20  | LQP03TN2N5B02 | 10              | 2.5nH      | ±0.1nH    | 14       | 0.20                   | 500                |
| 21  | LQP03TN2N6B02 | 10              | 2.6nH      | ±0.1nH    | 14       | 0.20                   | 500                |
| 22  | LQP03TN2N7B02 | 10              | 2.7nH      | ±0.1nH    | 14       | 0.20                   | 500                |
| 23  | LQP03TN2N8B02 | 10              | 2.8nH      | ±0.1nH    | 14       | 0.20                   | 500                |
| 24  | LQP03TN2N9B02 | 10              | 2.9nH      | ±0.1nH    | 14       | 0.20                   | 500                |
| 25  | LQP03TN3N0B02 | 10              | 3.0nH      | ±0.1nH    | 14       | 0.25                   | 450                |
| 26  | LQP03TN3N1B02 | 10              | 3.1nH      | ±0.1nH    | 14       | 0.25                   | 450                |
| 27  | LQP03TN3N2B02 | 10              | 3.2nH      | ±0.1nH    | 14       | 0.25                   | 450                |
| 28  | LQP03TN3N3B02 | 10              | 3.3nH      | ±0.1nH    | 14       | 0.25                   | 450                |
| 29  | LQP03TN3N4B02 | 10              | 3.4nH      | ±0.1nH    | 14       | 0.25                   | 450                |
| 30  | LQP03TN3N5B02 | 10              | 3.5nH      | ±0.1nH    | 14       | 0.25                   | 450                |
| 31  | LQP03TN3N6B02 | 10              | 3.6nH      | ±0.1nH    | 14       | 0.30                   | 400                |
| 32  | LQP03TN3N7B02 | 10              | 3.7nH      | ±0.1nH    | 14       | 0.30                   | 400                |
| 33  | LQP03TN3N8B02 | 10              | 3.8nH      | ±0.1nH    | 14       | 0.30                   | 400                |
| 34  | LQP03TN3N9B02 | 10              | 3.9nH      | ±0.1nH    | 14       | 0.30                   | 400                |
| 35  | LQP03TN4N0B02 | 10              | 4.0nH      | ±0.1nH    | 14       | 0.40                   | 350                |
| 36  | LQP03TN4N1B02 | 10              | 4.1nH      | ±0.1nH    | 14       | 0.40                   | 350                |
| 37  | LQP03TN4N2B02 | 10              | 4.2nH      | ±0.1nH    | 14       | 0.40                   | 350                |
| 38  | LQP03TN4N3H02 | 10              | 4.3nH      | ±3%       | 14       | 0.40                   | 350                |
| 39  | LQP03TN4N7H02 | 10              | 4.7nH      | ±3%       | 14       | 0.40                   | 350                |
| 40  | LQP03TN5N1H02 | 10              | 5.1nH      | ±3%       | 14       | 0.40                   | 350                |
| 41  | LQP03TN5N6H02 | 10              | 5.6nH      | ±3%       | 14       | 0.40                   | 350                |
| 42  | LQP03TN6N2H02 | 10              | 6.2nH      | ±3%       | 14       | 0.60                   | 300                |
| 43  | LQP03TN6N8H02 | 10              | 6.8nH      | ±3%       | 14       | 0.60                   | 300                |
| 44  | LQP03TN7N5H02 | 10              | 7.5nH      | ±3%       | 14       | 0.60                   | 300                |
| 45  | LQP03TN8N2H02 | 10              | 8.2nH      | ±3%       | 14       | 0.70                   | 250                |
| 46  | LQP03TN9N1H02 | 10              | 9.1nH      | ±3%       | 14       | 0.70                   | 250                |
| 47  | LQP03TN10NH02 | 10              | 10nH       | ±3%       | 14       | 0.70                   | 250                |
| 48  | LQP03TN11NH02 | 10              | 11nH       | ±3%       | 14       | 0.80                   | 250                |
| 49  | LQP03TN12NH02 | 10              | 12nH       | ±3%       | 12       | 0.70                   | 250                |
| 50  | LQP03TN13NH02 | 10              | 13nH       | ±3%       | 12       | 0.80                   | 250                |
| 51  | LQP03TN15NH02 | 10              | 15nH       | ±3%       | 12       | 0.70                   | 250                |
| 52  | LQP03TN16NH02 | 10              | 16nH       | ±3%       | 12       | 0.95                   | 200                |
| 53  | LQP03TN18NH02 | 10              | 18nH       | ±3%       | 12       | 0.80                   | 200                |
| 54  | LQP03TN20NH02 | 10              | 20nH       | ±3%       | 12       | 2.30                   | 150                |

**●EKLMP3BB-KIT (RF Inductors Film Type)**

| No. | Part Number   | Quantity (pcs.) | Inductance |           | Q (min.) | DC Resistance (Ω) max. | Rated Current (mA) |
|-----|---------------|-----------------|------------|-----------|----------|------------------------|--------------------|
|     |               |                 | Nominal    | Tolerance |          |                        |                    |
| 1   | LQP03TN22NH02 | 10              | 22nH       | ±3%       | 12       | 1.90                   | 150                |
| 2   | LQP03TN24NH02 | 10              | 24nH       | ±3%       | 12       | 2.30                   | 140                |
| 3   | LQP03TN27NH02 | 10              | 27nH       | ±3%       | 12       | 2.30                   | 140                |
| 4   | LQP03TN30NH02 | 10              | 30nH       | ±3%       | 9        | 2.95                   | 120                |
| 5   | LQP03TN33NJ02 | 10              | 33nH       | ±5%       | 9        | 2.95                   | 120                |

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| No. | Part Number   | Quantity (pcs.) | Inductance |           | Q (min.) | DC Resistance (Ω) max. | Rated Current (mA) |
|-----|---------------|-----------------|------------|-----------|----------|------------------------|--------------------|
|     |               |                 | Nominal    | Tolerance |          |                        |                    |
| 6   | LQP03TN36NJ02 | 10              | 36nH       | ±5%       | 9        | 3.00                   | 120                |
| 7   | LQP03TN39NJ02 | 10              | 39nH       | ±5%       | 9        | 3.00                   | 120                |
| 8   | LQP03TN43NJ02 | 10              | 43nH       | ±5%       | 9        | 3.60                   | 100                |
| 9   | LQP03TN47NJ02 | 10              | 47nH       | ±5%       | 9        | 3.60                   | 100                |
| 10  | LQP03TN51NJ02 | 10              | 51nH       | ±5%       | 9        | 3.90                   | 100                |
| 11  | LQP03TN56NJ02 | 10              | 56nH       | ±5%       | 9        | 3.90                   | 100                |
| 12  | LQP03TN62NJ02 | 10              | 62nH       | ±5%       | 8        | 8                      | 100                |
| 13  | LQP03TN68NJ02 | 10              | 68nH       | ±5%       | 8        | 8                      | 100                |
| 14  | LQP03TN75NJ02 | 10              | 75nH       | ±5%       | 8        | 10                     | 100                |
| 15  | LQP03TN82NJ02 | 10              | 82nH       | ±5%       | 8        | 10                     | 100                |
| 16  | LQP03TN91NJ02 | 10              | 91nH       | ±5%       | 8        | 10                     | 80                 |
| 17  | LQP03TNR10J02 | 10              | 100nH      | ±5%       | 8        | 10                     | 80                 |
| 18  | LQP03TNR11J02 | 10              | 110nH      | ±5%       | 8        | 12                     | 80                 |
| 19  | LQP03TNR12J02 | 10              | 120nH      | ±5%       | 8        | 12                     | 80                 |
| 20  | LQP03TNR13J02 | 10              | 130nH      | ±5%       | 5        | 9                      | 80                 |
| 21  | LQP03TNR15J02 | 10              | 150nH      | ±5%       | 5        | 9                      | 80                 |
| 22  | LQP03TNR16J02 | 10              | 160nH      | ±5%       | 5        | 11                     | 70                 |
| 23  | LQP03TNR18J02 | 10              | 180nH      | ±5%       | 5        | 11                     | 70                 |
| 24  | LQP03TNR20J02 | 10              | 200nH      | ±5%       | 5        | 13                     | 60                 |
| 25  | LQP03TNR22J02 | 10              | 220nH      | ±5%       | 5        | 13                     | 60                 |
| 26  | LQP03TNR24J02 | 10              | 240nH      | ±5%       | 5        | 15                     | 60                 |
| 27  | LQP03TNR27J02 | 10              | 270nH      | ±5%       | 5        | 15                     | 60                 |

## ●EKLMP15B-KIT (RF Inductors Film Type)

| No. | Part Number   | Quantity (pcs.) | Inductance |           | Q (min.) | DC Resistance (Ω) max. | Rated Current (mA) |
|-----|---------------|-----------------|------------|-----------|----------|------------------------|--------------------|
|     |               |                 | Nominal    | Tolerance |          |                        |                    |
| 1   | LQP15MN1N0B02 | 10              | 1.0nH      | ±0.1nH    | 13       | 0.1                    | 400                |
| 2   | LQP15MN1N1B02 | 10              | 1.1nH      | ±0.1nH    | 13       | 0.1                    | 390                |
| 3   | LQP15MN1N2B02 | 10              | 1.2nH      | ±0.1nH    | 13       | 0.1                    | 390                |
| 4   | LQP15MN1N3B02 | 10              | 1.3nH      | ±0.1nH    | 13       | 0.2                    | 280                |
| 5   | LQP15MN1N5B02 | 10              | 1.5nH      | ±0.1nH    | 13       | 0.2                    | 280                |
| 6   | LQP15MN1N6B02 | 10              | 1.6nH      | ±0.1nH    | 13       | 0.3                    | 220                |
| 7   | LQP15MN1N8B02 | 10              | 1.8nH      | ±0.1nH    | 13       | 0.2                    | 280                |
| 8   | LQP15MN2N0B02 | 10              | 2.0nH      | ±0.1nH    | 13       | 0.3                    | 220                |
| 9   | LQP15MN2N2B02 | 10              | 2.2nH      | ±0.1nH    | 13       | 0.3                    | 220                |
| 10  | LQP15MN2N4B02 | 10              | 2.4nH      | ±0.1nH    | 13       | 0.3                    | 220                |
| 11  | LQP15MN2N7B02 | 10              | 2.7nH      | ±0.1nH    | 13       | 0.3                    | 220                |
| 12  | LQP15MN3N0B02 | 10              | 3.0nH      | ±0.1nH    | 13       | 0.4                    | 190                |
| 13  | LQP15MN3N3B02 | 10              | 3.3nH      | ±0.1nH    | 13       | 0.4                    | 190                |
| 14  | LQP15MN3N6B02 | 10              | 3.6nH      | ±0.1nH    | 13       | 0.5                    | 170                |
| 15  | LQP15MN3N9B02 | 10              | 3.9nH      | ±0.1nH    | 13       | 0.5                    | 170                |
| 16  | LQP15MN4N3B02 | 10              | 4.3nH      | ±0.1nH    | 13       | 0.6                    | 160                |
| 17  | LQP15MN4N7B02 | 10              | 4.7nH      | ±0.1nH    | 13       | 0.6                    | 160                |
| 18  | LQP15MN5N1B02 | 10              | 5.1nH      | ±0.1nH    | 13       | 0.7                    | 140                |
| 19  | LQP15MN5N6B02 | 10              | 5.6nH      | ±0.1nH    | 13       | 0.7                    | 140                |
| 20  | LQP15MN6N2B02 | 10              | 6.2nH      | ±0.1nH    | 13       | 0.9                    | 130                |
| 21  | LQP15MN6N8B02 | 10              | 6.8nH      | ±0.1nH    | 13       | 0.9                    | 130                |
| 22  | LQP15MN7N5B02 | 10              | 7.5nH      | ±0.1nH    | 13       | 1.1                    | 110                |
| 23  | LQP15MN8N2B02 | 10              | 8.2nH      | ±0.1nH    | 13       | 1.1                    | 110                |
| 24  | LQP15MN9N1B02 | 10              | 9.1nH      | ±0.1nH    | 13       | 1.3                    | 100                |
| 25  | LQP15MN10NG02 | 10              | 10nH       | ±2%       | 13       | 1.3                    | 100                |
| 26  | LQP15MN12NG02 | 10              | 12nH       | ±2%       | 13       | 1.6                    | 90                 |
| 27  | LQP15MN15NG02 | 10              | 15nH       | ±2%       | 13       | 1.8                    | 90                 |
| 28  | LQP15MN18NG02 | 10              | 18nH       | ±2%       | 13       | 2.0                    | 80                 |
| 29  | LQP15MN22NG02 | 10              | 22nH       | ±2%       | 13       | 2.6                    | 70                 |
| 30  | LQP15MN27NG02 | 10              | 27nH       | ±2%       | 13       | 3.1                    | 70                 |
| 31  | LQP15MN33NG02 | 10              | 33nH       | ±2%       | 13       | 3.8                    | 60                 |

## ●EKLQW03A-KIT (RF Inductors Wire Wound Type)

| No. | Part Number   | Quantity (pcs.) | Inductance |           | DC Resistance (Ω) max. | Rated Current (mA) |
|-----|---------------|-----------------|------------|-----------|------------------------|--------------------|
|     |               |                 | Nominal    | Tolerance |                        |                    |
| 1   | LQW03AW5N4J00 | 10              | 5.4nH      | ±5%       | 0.21                   | 420                |
| 2   | LQW03AW5N6J00 | 10              | 5.6nH      | ±5%       | 0.33                   | 330                |
| 3   | LQW03AW5N8J00 | 10              | 5.8nH      | ±5%       | 0.16                   | 460                |
| 4   | LQW03AW6N8J00 | 10              | 6.8nH      | ±5%       | 0.18                   | 460                |

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| No. | Part Number   | Quantity (pcs.) | Inductance |           | DC Resistance (Ω) max. | Rated Current (mA) |
|-----|---------------|-----------------|------------|-----------|------------------------|--------------------|
|     |               |                 | Nominal    | Tolerance |                        |                    |
| 5   | LQW03AW7N5J00 | 10              | 7.5nH      | ±5%       | 0.24                   | 400                |
| 6   | LQW03AW8N7J00 | 10              | 8.7nH      | ±5%       | 0.42                   | 290                |
| 7   | LQW03AW9N1J00 | 10              | 9.1nH      | ±5%       | 0.22                   | 460                |
| 8   | LQW03AW13NJ00 | 10              | 13nH       | ±5%       | 0.54                   | 280                |

## ●EKLQW04D-KIT (RF Inductors Wire Wound Type)

| No. | Part Number   | Quantity (pcs.) | Inductance |           | Q (min.) | DC Resistance (Ω) max. | Rated Current (mA) |
|-----|---------------|-----------------|------------|-----------|----------|------------------------|--------------------|
|     |               |                 | Nominal    | Tolerance |          |                        |                    |
| 1   | LQW04AN1N1C00 | 10              | 1.1nH      | ±0.2nH    | 15       | 0.03                   | 990                |
| 2   | LQW04AN1N8C00 | 10              | 1.8nH      | ±0.2nH    | 15       | 0.06                   | 700                |
| 3   | LQW04AN2N7C00 | 10              | 2.7nH      | ±0.2nH    | 15       | 0.07                   | 570                |
| 4   | LQW04AN3N0C00 | 10              | 3.0nH      | ±0.2nH    | 15       | 0.07                   | 620                |
| 5   | LQW04AN3N3C00 | 10              | 3.3nH      | ±0.2nH    | 10       | 0.14                   | 440                |
| 6   | LQW04AN3N6C00 | 10              | 3.6nH      | ±0.2nH    | 15       | 0.10                   | 530                |
| 7   | LQW04AN3N9C00 | 10              | 3.9nH      | ±0.2nH    | 15       | 0.10                   | 530                |
| 8   | LQW04AN4N3C00 | 10              | 4.3nH      | ±0.2nH    | 15       | 0.10                   | 530                |
| 9   | LQW04AN4N7C00 | 10              | 4.7nH      | ±0.2nH    | 20       | 0.14                   | 440                |
| 10  | LQW04AN5N1C00 | 10              | 5.1nH      | ±0.2nH    | 20       | 0.12                   | 470                |
| 11  | LQW04AN5N6C00 | 10              | 5.6nH      | ±0.2nH    | 20       | 0.12                   | 470                |
| 12  | LQW04AN6N2C00 | 10              | 6.2nH      | ±0.2nH    | 20       | 0.19                   | 390                |
| 13  | LQW04AN6N8C00 | 10              | 6.8nH      | ±0.2nH    | 20       | 0.14                   | 440                |
| 14  | LQW04AN7N5C00 | 10              | 7.5nH      | ±0.2nH    | 20       | 0.14                   | 440                |
| 15  | LQW04AN8N2C00 | 10              | 8.2nH      | ±0.2nH    | 20       | 0.23                   | 350                |
| 16  | LQW04AN9N1C00 | 10              | 9.1nH      | ±0.2nH    | 20       | 0.16                   | 400                |
| 17  | LQW04AN10NH00 | 10              | 10nH       | ±3%       | 20       | 0.26                   | 330                |
| 18  | LQW04AN11NH00 | 10              | 11nH       | ±3%       | 15       | 0.28                   | 310                |
| 19  | LQW04AN12NH00 | 10              | 12nH       | ±3%       | 15       | 0.28                   | 310                |
| 20  | LQW04AN13NH00 | 10              | 13nH       | ±3%       | 15       | 0.34                   | 280                |
| 21  | LQW04AN15NH00 | 10              | 15nH       | ±3%       | 15       | 0.48                   | 240                |
| 22  | LQW04AN16NH00 | 10              | 16nH       | ±3%       | 15       | 0.38                   | 270                |
| 23  | LQW04AN18NH00 | 10              | 18nH       | ±3%       | 15       | 0.54                   | 220                |
| 24  | LQW04AN19NH00 | 10              | 19nH       | ±3%       | 15       | 0.73                   | 160                |
| 25  | LQW04AN20NH00 | 10              | 20nH       | ±3%       | 15       | 0.56                   | 210                |
| 26  | LQW04AN22NH00 | 10              | 22nH       | ±3%       | 15       | 0.63                   | 200                |
| 27  | LQW04AN23NH00 | 10              | 23nH       | ±3%       | 15       | 0.95                   | 160                |
| 28  | LQW04AN24NH00 | 10              | 24nH       | ±3%       | 15       | 0.95                   | 160                |
| 29  | LQW04AN25NH00 | 10              | 25nH       | ±3%       | 15       | 0.95                   | 160                |
| 30  | LQW04AN27NH00 | 10              | 27nH       | ±3%       | 15       | 0.95                   | 160                |
| 31  | LQW04AN33NH00 | 10              | 33nH       | ±3%       | 15       | 1.11                   | 140                |

## ●EKLQW15K-KIT (RF Inductors Wire Wound Type)

| No. | Part Number   | Quantity (pcs.) | Inductance |           | Q (min.) | DC Resistance (Ω) max. | Rated Current (mA) |
|-----|---------------|-----------------|------------|-----------|----------|------------------------|--------------------|
|     |               |                 | Nominal    | Tolerance |          |                        |                    |
| 1   | LQW15AN1N5B00 | 10              | 1.5nH      | ±0.1nH    | 10       | 0.03                   | 1000               |
| 2   | LQW15AN2N4B00 | 10              | 2.4nH      | ±0.1nH    | 20       | 0.05                   | 850                |
| 3   | LQW15AN2N5B00 | 10              | 2.5nH      | ±0.1nH    | 20       | 0.05                   | 850                |
| 4   | LQW15AN2N7B00 | 10              | 2.7nH      | ±0.1nH    | 20       | 0.05                   | 850                |
| 5   | LQW15AN2N9B00 | 10              | 2.9nH      | ±0.1nH    | 20       | 0.07                   | 750                |
| 6   | LQW15AN3N9B00 | 10              | 3.9nH      | ±0.1nH    | 25       | 0.07                   | 750                |
| 7   | LQW15AN4N1B00 | 10              | 4.1nH      | ±0.1nH    | 25       | 0.07                   | 750                |
| 8   | LQW15AN4N3B00 | 10              | 4.3nH      | ±0.1nH    | 25       | 0.07                   | 750                |
| 9   | LQW15AN4N7B00 | 10              | 4.7nH      | ±0.1nH    | 25       | 0.07                   | 750                |
| 10  | LQW15AN5N1B00 | 10              | 5.1nH      | ±0.1nH    | 25       | 0.12                   | 600                |
| 11  | LQW15AN5N8B00 | 10              | 5.8nH      | ±0.1nH    | 25       | 0.12                   | 700                |
| 12  | LQW15AN6N2B00 | 10              | 6.2nH      | ±0.1nH    | 25       | 0.09                   | 700                |
| 13  | LQW15AN6N8G00 | 10              | 6.8nH      | ±2%       | 25       | 0.09                   | 700                |
| 14  | LQW15AN7N3G00 | 10              | 7.3nH      | ±2%       | 25       | 0.13                   | 570                |
| 15  | LQW15AN7N5G00 | 10              | 7.5nH      | ±2%       | 25       | 0.13                   | 570                |
| 16  | LQW15AN8N2G00 | 10              | 8.2nH      | ±2%       | 25       | 0.14                   | 540                |
| 17  | LQW15AN8N7G00 | 10              | 8.7nH      | ±2%       | 25       | 0.14                   | 540                |
| 18  | LQW15AN9N1G00 | 10              | 9.1nH      | ±2%       | 25       | 0.14                   | 540                |
| 19  | LQW15AN9N5G00 | 10              | 9.5nH      | ±2%       | 25       | 0.14                   | 540                |
| 20  | LQW15AN10NG00 | 10              | 10nH       | ±2%       | 25       | 0.17                   | 500                |
| 21  | LQW15AN11NG00 | 10              | 11nH       | ±2%       | 30       | 0.14                   | 500                |
| 22  | LQW15AN12NG00 | 10              | 12nH       | ±2%       | 30       | 0.14                   | 500                |

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| No. | Part Number   | Quantity (pcs.) | Inductance |           | Q (min.) | DC Resistance (Ω) max. | Rated Current (mA) |
|-----|---------------|-----------------|------------|-----------|----------|------------------------|--------------------|
|     |               |                 | Nominal    | Tolerance |          |                        |                    |
| 23  | LQW15AN13NG00 | 10              | 13nH       | ±2%       | 25       | 0.21                   | 430                |
| 24  | LQW15AN15NG00 | 10              | 15nH       | ±2%       | 30       | 0.16                   | 460                |
| 25  | LQW15AN16NG00 | 10              | 16nH       | ±2%       | 25       | 0.24                   | 370                |
| 26  | LQW15AN18NG00 | 10              | 18nH       | ±2%       | 25       | 0.27                   | 370                |
| 27  | LQW15AN19NG00 | 10              | 19nH       | ±2%       | 25       | 0.27                   | 370                |
| 28  | LQW15AN20NG00 | 10              | 20nH       | ±2%       | 25       | 0.27                   | 370                |
| 29  | LQW15AN22NG00 | 10              | 22nH       | ±2%       | 25       | 0.30                   | 310                |
| 30  | LQW15AN23NG00 | 10              | 23nH       | ±2%       | 25       | 0.30                   | 310                |
| 31  | LQW15AN24NG00 | 10              | 24nH       | ±2%       | 25       | 0.52                   | 280                |
| 32  | LQW15AN27NG00 | 10              | 27nH       | ±2%       | 25       | 0.52                   | 280                |
| 33  | LQW15AN30NG00 | 10              | 30nH       | ±2%       | 25       | 0.58                   | 270                |
| 34  | LQW15AN33NG00 | 10              | 33nH       | ±2%       | 25       | 0.63                   | 260                |
| 35  | LQW15AN36NG00 | 10              | 36nH       | ±2%       | 25       | 0.63                   | 260                |
| 36  | LQW15AN39NG00 | 10              | 39nH       | ±2%       | 25       | 0.70                   | 250                |
| 37  | LQW15AN40NG00 | 10              | 40nH       | ±2%       | 25       | 0.70                   | 250                |
| 38  | LQW15AN43NG00 | 10              | 43nH       | ±2%       | 25       | 0.70                   | 250                |
| 39  | LQW15AN47NG00 | 10              | 47nH       | ±2%       | 25       | 1.08                   | 210                |
| 40  | LQW15AN51NG00 | 10              | 51nH       | ±2%       | 25       | 1.08                   | 210                |
| 41  | LQW15AN56NG00 | 10              | 56nH       | ±2%       | 25       | 1.17                   | 200                |
| 42  | LQW15AN62NG00 | 10              | 62nH       | ±2%       | 20       | 1.82                   | 145                |
| 43  | LQW15AN68NG00 | 10              | 68nH       | ±2%       | 20       | 1.96                   | 140                |
| 44  | LQW15AN72NG00 | 10              | 72nH       | ±2%       | 20       | 2.10                   | 135                |
| 45  | LQW15AN75NG00 | 10              | 75nH       | ±2%       | 20       | 2.10                   | 135                |
| 46  | LQW15AN82NG00 | 10              | 82nH       | ±2%       | 20       | 2.24                   | 130                |
| 47  | LQW15AN91NG00 | 10              | 91nH       | ±2%       | 20       | 2.38                   | 125                |
| 48  | LQW15ANR10J00 | 10              | 100nH      | ±5%       | 20       | 2.52                   | 120                |
| 49  | LQW15ANR12J00 | 10              | 120nH      | ±5%       | 20       | 2.66                   | 110                |
| 50  | LQW15AN1N3C10 | 10              | 1.3nH      | ±0.2nH    | 20       | 0.017                  | 1200               |
| 51  | LQW15AN2N2C10 | 10              | 2.2nH      | ±0.2nH    | 25       | 0.027                  | 1000               |
| 52  | LQW15AN2N4D10 | 10              | 2.4nH      | ±0.5nH    | 25       | 0.027                  | 1000               |
| 53  | LQW15AN3N3D10 | 10              | 3.3nH      | ±0.5nH    | 30       | 0.04                   | 900                |
| 54  | LQW15AN3N4C10 | 10              | 3.4nH      | ±0.2nH    | 30       | 0.04                   | 900                |
| 55  | LQW15AN3N6C10 | 10              | 3.6nH      | ±0.2nH    | 30       | 0.04                   | 900                |
| 56  | LQW15AN3N9D10 | 10              | 3.9nH      | ±0.5nH    | 30       | 0.040                  | 900                |
| 57  | LQW15AN4N7D10 | 10              | 4.7nH      | ±0.5nH    | 30       | 0.051                  | 800                |
| 58  | LQW15AN5N1C10 | 10              | 5.1nH      | ±0.2nH    | 30       | 0.051                  | 800                |
| 59  | LQW15AN5N6C10 | 10              | 5.6nH      | ±0.2nH    | 30       | 0.051                  | 800                |

## ●EKLQW80A-KIT (RF Inductors Wire Wound Type)

| No. | Part Number   | Quantity (pcs.) | Inductance |           | Q (min.) | DC Resistance (Ω) max. | Rated Current (mA) |
|-----|---------------|-----------------|------------|-----------|----------|------------------------|--------------------|
|     |               |                 | Nominal    | Tolerance |          |                        |                    |
| 1   | LQW15AN1N3C80 | 10              | 1.3nH      | ±0.2nH    | 20       | 0.012                  | 3150               |
| 2   | LQW15AN2N3B80 | 10              | 2.3nH      | ±0.1nH    | 30       | 0.022                  | 2530               |
| 3   | LQW15AN2N4B80 | 10              | 2.4nH      | ±0.1nH    | 30       | 0.022                  | 2530               |
| 4   | LQW15AN3N4B80 | 10              | 3.4nH      | ±0.1nH    | 30       | 0.030                  | 1950               |
| 5   | LQW15AN3N6B80 | 10              | 3.6nH      | ±0.1nH    | 30       | 0.030                  | 1950               |
| 6   | LQW15AN3N8B80 | 10              | 3.8nH      | ±0.1nH    | 35       | 0.030                  | 1950               |
| 7   | LQW15AN3N9B80 | 10              | 3.9nH      | ±0.1nH    | 35       | 0.030                  | 1950               |
| 8   | LQW15AN4N0B80 | 10              | 4.0nH      | ±0.1nH    | 30       | 0.030                  | 1950               |
| 9   | LQW15AN5N1B80 | 10              | 5.1nH      | ±0.1nH    | 35       | 0.040                  | 1770               |
| 10  | LQW15AN5N2B80 | 10              | 5.2nH      | ±0.1nH    | 35       | 0.040                  | 1770               |
| 11  | LQW15AN5N4B80 | 10              | 5.4nH      | ±0.1nH    | 35       | 0.040                  | 1770               |
| 12  | LQW15AN5N6B80 | 10              | 5.6nH      | ±0.1nH    | 35       | 0.040                  | 1770               |
| 13  | LQW15AN5N7B80 | 10              | 5.7nH      | ±0.1nH    | 30       | 0.040                  | 1770               |
| 14  | LQW15AN5N8B80 | 10              | 5.8nH      | ±0.1nH    | 30       | 0.040                  | 1770               |
| 15  | LQW15AN7N4G80 | 10              | 7.4nH      | ±2%       | 30       | 0.050                  | 1700               |
| 16  | LQW15AN7N5G80 | 10              | 7.5nH      | ±2%       | 35       | 0.050                  | 1700               |
| 17  | LQW15AN7N6G80 | 10              | 7.6nH      | ±2%       | 30       | 0.050                  | 1700               |
| 18  | LQW15AN7N7G80 | 10              | 7.7nH      | ±2%       | 30       | 0.050                  | 1700               |
| 19  | LQW15AN7N8G80 | 10              | 7.8nH      | ±2%       | 30       | 0.050                  | 1700               |
| 20  | LQW15AN8N0G80 | 10              | 8.0nH      | ±2%       | 30       | 0.050                  | 1700               |
| 21  | LQW15AN13NG80 | 10              | 13nH       | ±2%       | 30       | 0.093                  | 1240               |
| 22  | LQW15AN27NG80 | 10              | 27nH       | ±2%       | 30       | 0.288                  | 680                |
| 23  | LQW15AN33NG80 | 10              | 33nH       | ±2%       | 30       | 0.336                  | 620                |
| 24  | LQW15AN43NG80 | 10              | 43nH       | ±2%       | 30       | 0.516                  | 515                |

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| No. | Part Number   | Quantity (pcs.) | Inductance |           | Q (min.) | DC Resistance (Ω) max. | Rated Current (mA) |
|-----|---------------|-----------------|------------|-----------|----------|------------------------|--------------------|
|     |               |                 | Nominal    | Tolerance |          |                        |                    |
| 25  | LQW15AN53NG80 | 10              | 53nH       | ±2%       | 25       | 0.696                  | 415                |
| 26  | LQW15AN75NG80 | 10              | 75nH       | ±2%       | 25       | 1.224                  | 320                |

**●EKLQW18A-KIT (RF Inductors Wire Wound Type)**

| No. | Part Number   | Quantity (pcs.) | Inductance |           | Q (min.) | DC Resistance (Ω) max. | Rated Current (mA) |
|-----|---------------|-----------------|------------|-----------|----------|------------------------|--------------------|
|     |               |                 | Nominal    | Tolerance |          |                        |                    |
| 1   | LQW18AN3N6C00 | 10              | 3.6nH      | ±0.2nH    | 25       | 0.059                  | 850                |
| 2   | LQW18AN3N9C00 | 10              | 3.9nH      | ±0.2nH    | 35       | 0.059                  | 850                |
| 3   | LQW18AN4N3C00 | 10              | 4.3nH      | ±0.2nH    | 35       | 0.059                  | 850                |
| 4   | LQW18AN5N6C00 | 10              | 5.6nH      | ±0.2nH    | 35       | 0.082                  | 750                |
| 5   | LQW18AN6N2C00 | 10              | 6.2nH      | ±0.2nH    | 35       | 0.082                  | 750                |
| 6   | LQW18AN6N8C00 | 10              | 6.8nH      | ±0.2nH    | 35       | 0.082                  | 750                |
| 7   | LQW18AN10NG00 | 10              | 10nH       | ±2%       | 35       | 0.11                   | 650                |
| 8   | LQW18AN11NG00 | 10              | 11nH       | ±2%       | 35       | 0.11                   | 650                |
| 9   | LQW18AN12NG00 | 10              | 12nH       | ±2%       | 35       | 0.13                   | 600                |
| 10  | LQW18AN13NG00 | 10              | 13nH       | ±2%       | 35       | 0.13                   | 600                |
| 11  | LQW18AN15NG00 | 10              | 15nH       | ±2%       | 40       | 0.13                   | 600                |
| 12  | LQW18AN16NG00 | 10              | 16nH       | ±2%       | 40       | 0.16                   | 550                |
| 13  | LQW18AN18NG00 | 10              | 18nH       | ±2%       | 40       | 0.16                   | 550                |
| 14  | LQW18AN20NG00 | 10              | 20nH       | ±2%       | 40       | 0.16                   | 550                |
| 15  | LQW18AN22NG00 | 10              | 22nH       | ±2%       | 40       | 0.17                   | 500                |
| 16  | LQW18AN24NG00 | 10              | 24nH       | ±2%       | 40       | 0.21                   | 500                |
| 17  | LQW18AN27NG00 | 10              | 27nH       | ±2%       | 40       | 0.21                   | 440                |
| 18  | LQW18AN30NG00 | 10              | 30nH       | ±2%       | 40       | 0.23                   | 420                |
| 19  | LQW18AN33NG00 | 10              | 33nH       | ±2%       | 40       | 0.23                   | 420                |
| 20  | LQW18AN36NG00 | 10              | 36nH       | ±2%       | 40       | 0.26                   | 400                |
| 21  | LQW18AN39NG00 | 10              | 39nH       | ±2%       | 40       | 0.26                   | 400                |
| 22  | LQW18AN43NG00 | 10              | 43nH       | ±2%       | 40       | 0.29                   | 380                |
| 23  | LQW18AN47NG00 | 10              | 47nH       | ±2%       | 38       | 0.29                   | 380                |
| 24  | LQW18AN51NG00 | 10              | 51nH       | ±2%       | 38       | 0.33                   | 370                |
| 25  | LQW18AN56NG00 | 10              | 56nH       | ±2%       | 38       | 0.35                   | 360                |
| 26  | LQW18AN62NG00 | 10              | 62nH       | ±2%       | 38       | 0.51                   | 280                |
| 27  | LQW18AN68NG00 | 10              | 68nH       | ±2%       | 38       | 0.38                   | 340                |
| 28  | LQW18AN72NG00 | 10              | 72nH       | ±2%       | 34       | 0.56                   | 270                |
| 29  | LQW18AN75NG00 | 10              | 75nH       | ±2%       | 34       | 0.56                   | 270                |
| 30  | LQW18AN82NG00 | 10              | 82nH       | ±2%       | 34       | 0.60                   | 250                |
| 31  | LQW18AN91NG00 | 10              | 91nH       | ±2%       | 34       | 0.64                   | 230                |
| 32  | LQW18ANR10G00 | 10              | 100nH      | ±2%       | 34       | 0.68                   | 220                |
| 33  | LQW18ANR11G00 | 10              | 110nH      | ±2%       | 32       | 1.2                    | 200                |
| 34  | LQW18ANR12G00 | 10              | 120nH      | ±2%       | 32       | 1.3                    | 180                |
| 35  | LQW18ANR13G00 | 10              | 130nH      | ±2%       | 32       | 1.4                    | 170                |
| 36  | LQW18ANR15G00 | 10              | 150nH      | ±2%       | 32       | 1.5                    | 160                |
| 37  | LQW18ANR16G00 | 10              | 160nH      | ±2%       | 32       | 2.1                    | 150                |
| 38  | LQW18ANR18G00 | 10              | 180nH      | ±2%       | 25       | 2.2                    | 140                |
| 39  | LQW18ANR20G00 | 10              | 200nH      | ±2%       | 25       | 2.4                    | 120                |
| 40  | LQW18ANR22G00 | 10              | 220nH      | ±2%       | 25       | 2.5                    | 120                |
| 41  | LQW18ANR27G00 | 10              | 270nH      | ±2%       | 30       | 3.4                    | 110                |
| 42  | LQW18ANR33G00 | 10              | 330nH      | ±2%       | 30       | 5.5                    | 85                 |
| 43  | LQW18ANR39G00 | 10              | 390nH      | ±2%       | 30       | 6.2                    | 80                 |
| 44  | LQW18ANR47G00 | 10              | 470nH      | ±2%       | 30       | 7.0                    | 75                 |
| 45  | LQW18AN3N9C10 | 10              | 3.9nH      | ±0.2nH    | 38       | 0.032                  | 1000               |
| 46  | LQW18AN6N8C10 | 10              | 6.8nH      | ±0.2nH    | 38       | 0.045                  | 900                |
| 47  | LQW18AN10NG10 | 10              | 10nH       | ±2%       | 38       | 0.058                  | 800                |
| 48  | LQW18AN12NG10 | 10              | 12nH       | ±2%       | 38       | 0.071                  | 750                |
| 49  | LQW18AN18NG10 | 10              | 18nH       | ±2%       | 42       | 0.085                  | 700                |
| 50  | LQW18AN22NG10 | 10              | 22nH       | ±2%       | 42       | 0.099                  | 640                |
| 51  | LQW18AN27NG10 | 10              | 27nH       | ±2%       | 42       | 0.116                  | 590                |

**●EKLQ80GB-KIT (RF Inductors Wire Wound Type)**

| No. | Part Number   | Quantity (pcs.) | Inductance |           | Q (min.) | DC Resistance (Ω) max. | Rated Current (mA) |
|-----|---------------|-----------------|------------|-----------|----------|------------------------|--------------------|
|     |               |                 | Nominal    | Tolerance |          |                        |                    |
| 1   | LQW18AN4N3B80 | 10              | 4.3nH      | ±0.1nH    | 35       | 0.036                  | 2100               |
| 2   | LQW18AN4N7B80 | 10              | 4.7nH      | ±0.1nH    | 25       | 0.054                  | 1500               |
| 3   | LQW18AN4N9B80 | 10              | 4.9nH      | ±0.1nH    | 23       | 0.081                  | 1200               |
| 4   | LQW18AN30NG80 | 10              | 30nH       | ±2%       | 40       | 0.12                   | 1100               |

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| No. | Part Number   | Quantity (pcs.) | Inductance |           | Q (min.) | DC Resistance (Ω) max. | Rated Current (mA) |
|-----|---------------|-----------------|------------|-----------|----------|------------------------|--------------------|
|     |               |                 | Nominal    | Tolerance |          |                        |                    |
| 5   | LQW18AN36NG80 | 10              | 36nH       | ±2%       | 37       | 0.2                    | 910                |
| 6   | LQW18AN39NG80 | 10              | 39nH       | ±2%       | 40       | 0.16                   | 1000               |
| 7   | LQW18AN43NG80 | 10              | 43nH       | ±2%       | 40       | 0.21                   | 840                |
| 8   | LQW18AN47NG80 | 10              | 47nH       | ±2%       | 32       | 0.23                   | 830                |
| 9   | LQW18AN51NG80 | 10              | 51nH       | ±2%       | 32       | 0.23                   | 830                |
| 10  | LQW18AN56NG80 | 10              | 56nH       | ±2%       | 38       | 0.26                   | 770                |
| 11  | LQW18AN68NG80 | 10              | 68nH       | ±2%       | 37       | 0.38                   | 630                |
| 12  | LQW18AN72NG80 | 10              | 72nH       | ±2%       | 34       | 0.47                   | 560                |
| 13  | LQW18AN75NG80 | 10              | 75nH       | ±2%       | 28       | 0.41                   | 590                |
| 14  | LQW18AN82NG80 | 10              | 82nH       | ±2%       | 34       | 0.5                    | 550                |
| 15  | LQW18AN91NG80 | 10              | 91nH       | ±2%       | 33       | 0.54                   | 520                |
| 16  | LQW18ANR10G80 | 10              | 100nH      | ±2%       | 34       | 0.63                   | 490                |
| 17  | LQW18ANR11G80 | 10              | 110nH      | ±2%       | 32       | 0.7                    | 450                |
| 18  | LQW18ANR12G80 | 10              | 120nH      | ±2%       | 32       | 0.72                   | 450                |
| 19  | LQW18ANR15G80 | 10              | 150nH      | ±2%       | 28       | 0.87                   | 420                |
| 20  | LQW18ANR18G80 | 10              | 180nH      | ±2%       | 25       | 1.65                   | 310                |
| 21  | LQW18ANR20G80 | 10              | 200nH      | ±2%       | 25       | 1.74                   | 290                |
| 22  | LQW18ANR21G80 | 10              | 210nH      | ±2%       | 27       | 1.98                   | 280                |
| 23  | LQW18ANR22G80 | 10              | 220nH      | ±2%       | 25       | 2.08                   | 280                |
| 24  | LQW18ANR25G80 | 10              | 250nH      | ±2%       | 24       | 2.28                   | 250                |
| 25  | LQW18ANR27G80 | 10              | 270nH      | ±2%       | 24       | 2.42                   | 260                |
| 26  | LQW18ANR30G80 | 10              | 300nH      | ±2%       | 25       | 3.12                   | 220                |
| 27  | LQW18ANR33G80 | 10              | 330nH      | ±2%       | 25       | 3.84                   | 190                |
| 28  | LQW18ANR36G80 | 10              | 360nH      | ±2%       | 25       | 3.98                   | 190                |
| 29  | LQW18ANR39G80 | 10              | 390nH      | ±2%       | 25       | 4.23                   | 190                |

## ●EKLQW21A-KIT (RF Inductors Wire Wound Ferrite Core Type)

| No. | Part Number   | Quantity (pcs.) | Inductance |           | Q (min.) | DC Resistance (Ω) max. | Rated Current (mA) |
|-----|---------------|-----------------|------------|-----------|----------|------------------------|--------------------|
|     |               |                 | Nominal    | Tolerance |          |                        |                    |
| 1   | LQW21HNR47J00 | 10              | 0.47μH     | ±5%       | 35       | 1.30                   | 160                |
| 2   | LQW21HNR56J00 | 10              | 0.56μH     | ±5%       | 35       | 1.43                   | 150                |
| 3   | LQW21HNR68J00 | 10              | 0.68μH     | ±5%       | 35       | 2.21                   | 130                |
| 4   | LQW21HNR82J00 | 10              | 0.82μH     | ±5%       | 35       | 2.34                   | 125                |
| 5   | LQW21HN1R0J00 | 10              | 1.0μH      | ±5%       | 35       | 2.86                   | 115                |
| 6   | LQW21HN1R2J00 | 10              | 1.2μH      | ±5%       | 35       | 3.12                   | 100                |
| 7   | LQW21HN1R5J00 | 10              | 1.5μH      | ±5%       | 35       | 5.33                   | 85                 |
| 8   | LQW21HN1R8J00 | 10              | 1.8μH      | ±5%       | 35       | 5.85                   | 80                 |
| 9   | LQW21HN2R2J00 | 10              | 2.2μH      | ±5%       | 35       | 6.50                   | 75                 |

## ●EKLQW2BC-KIT (RF Inductors Wire Wound Air Core Type)

| No. | Part Number   | Quantity (pcs.) | Inductance |           | Q (min.) | DC Resistance (Ω) max. | Rated Current (mA) |
|-----|---------------|-----------------|------------|-----------|----------|------------------------|--------------------|
|     |               |                 | Nominal    | Tolerance |          |                        |                    |
| 1   | LQW2BHN2N7D13 | 10              | 2.7nH      | ±0.5nH    | 20       | 0.02                   | 1900               |
| 2   | LQW2BHN3N1D13 | 10              | 3.1nH      | ±0.5nH    | 20       | 0.02                   | 1800               |
| 3   | LQW2BHN3N3D13 | 10              | 3.3nH      | ±0.5nH    | 20       | 0.02                   | 1700               |
| 4   | LQW2BHN5N6D13 | 10              | 5.6nH      | ±0.5nH    | 35       | 0.02                   | 1500               |
| 5   | LQW2BHN6N8D13 | 10              | 6.8nH      | ±0.5nH    | 35       | 0.02                   | 1400               |
| 6   | LQW2BHN8N6D13 | 10              | 8.6nH      | ±0.5nH    | 35       | 0.03                   | 1300               |
| 7   | LQW2BHN10N13  | 10              | 10nH       | ±5%       | 35       | 0.03                   | 1320               |
| 8   | LQW2BHN12NK13 | 10              | 12nH       | ±10%      | 40       | 0.04                   | 1100               |
| 9   | LQW2BHN15NK13 | 10              | 15nH       | ±10%      | 40       | 0.04                   | 1000               |
| 10  | LQW2BHN18NK13 | 10              | 18.8nH     | ±10%      | 40       | 0.05                   | 1000               |
| 11  | LQW2BHN21NK13 | 10              | 21nH       | ±10%      | 40       | 0.05                   | 950                |
| 12  | LQW2BHN27NK13 | 10              | 27nH       | ±10%      | 40       | 0.06                   | 900                |
| 13  | LQW2BHN33NG03 | 10              | 33nH       | ±2%       | 40       | 0.15                   | 570                |
| 14  | LQW2BHN39NG03 | 10              | 39nH       | ±2%       | 40       | 0.09                   | 730                |
| 15  | LQW2BHN47NG03 | 10              | 47nH       | ±2%       | 40       | 0.23                   | 450                |
| 16  | LQW2BHN56NG03 | 10              | 56nH       | ±2%       | 40       | 0.26                   | 430                |
| 17  | LQW2BHN68NG03 | 10              | 68nH       | ±2%       | 40       | 0.23                   | 460                |
| 18  | LQW2BHN82NG03 | 10              | 82nH       | ±2%       | 40       | 0.42                   | 320                |
| 19  | LQW2BHN10G03  | 10              | 100nH      | ±2%       | 35       | 0.55                   | 270                |
| 20  | LQW2BHN12G03  | 10              | 120nH      | ±2%       | 40       | 0.40                   | 320                |
| 21  | LQW2BHN15G03  | 10              | 150nH      | ±2%       | 30       | 0.68                   | 260                |
| 22  | LQW2BHN18G03  | 10              | 180nH      | ±2%       | 35       | 0.71                   | 250                |
| 23  | LQW2BHN22G03  | 10              | 220nH      | ±2%       | 35       | 0.70                   | 240                |

Continued on the following page. ↗

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Continued from the preceding page.

| No. | Part Number   | Quantity (pcs.) | Inductance |           | Q (min.) | DC Resistance (Ω) max. | Rated Current (mA) |
|-----|---------------|-----------------|------------|-----------|----------|------------------------|--------------------|
|     |               |                 | Nominal    | Tolerance |          |                        |                    |
| 24  | LQW2BHNR27K03 | 10              | 270nH      | ±10%      | 15       | 2.00                   | 190                |
| 25  | LQW2BHNR33K03 | 10              | 330nH      | ±10%      | 15       | 2.20                   | 180                |
| 26  | LQW2BHNR39K03 | 10              | 390nH      | ±10%      | 15       | 2.50                   | 170                |
| 27  | LQW2BHNR47K03 | 10              | 470nH      | ±10%      | 15       | 2.80                   | 160                |

## ●EKLW2BUB-KIT (RF Inductors Wire Wound Type)

| No. | Part Number   | Quantity (pcs.) | Inductance |           | Q (min.) | DC Resistance (Ω) max. | Rated Current (mA) |
|-----|---------------|-----------------|------------|-----------|----------|------------------------|--------------------|
|     |               |                 | Nominal    | Tolerance |          |                        |                    |
| 1   | LQW2BAS2N8J00 | 10              | 2.8nH      | ±5%       | 80       | 0.06                   | 800                |
| 2   | LQW2BAS3N0J00 | 10              | 3nH        | ±5%       | 65       | 0.06                   | 800                |
| 3   | LQW2BAS5N6J00 | 10              | 5.6nH      | ±5%       | 65       | 0.08                   | 600                |
| 4   | LQW2BAS6N8J00 | 10              | 6.8nH      | ±5%       | 50       | 0.11                   | 600                |
| 5   | LQW2BAS7N5J00 | 10              | 7.5nH      | ±5%       | 50       | 0.14                   | 600                |
| 6   | LQW2BAS8N2J00 | 10              | 8.2nH      | ±5%       | 50       | 0.12                   | 600                |
| 7   | LQW2BAS10NJ00 | 10              | 10nH       | ±5%       | 60       | 0.10                   | 600                |
| 8   | LQW2BAS12NJ00 | 10              | 12nH       | ±5%       | 50       | 0.15                   | 600                |
| 9   | LQW2BAS15NJ00 | 10              | 15nH       | ±5%       | 50       | 0.17                   | 600                |
| 10  | LQW2BAS18NJ00 | 10              | 18nH       | ±5%       | 50       | 0.20                   | 600                |
| 11  | LQW2BAS22NJ00 | 10              | 22nH       | ±5%       | 55       | 0.22                   | 500                |
| 12  | LQW2BAS24NJ00 | 10              | 24nH       | ±5%       | 50       | 0.22                   | 500                |
| 13  | LQW2BAS27NJ00 | 10              | 27nH       | ±5%       | 55       | 0.25                   | 500                |
| 14  | LQW2BAS33NG00 | 10              | 33nH       | ±2%       | 60       | 0.27                   | 500                |
| 15  | LQW2BAS36NG00 | 10              | 36nH       | ±2%       | 55       | 0.27                   | 500                |
| 16  | LQW2BAS39NG00 | 10              | 39nH       | ±2%       | 60       | 0.29                   | 500                |
| 17  | LQW2BAS43NG00 | 10              | 43nH       | ±2%       | 60       | 0.34                   | 500                |
| 18  | LQW2BAS47NG00 | 10              | 47nH       | ±2%       | 60       | 0.31                   | 500                |
| 19  | LQW2BAS56NG00 | 10              | 56nH       | ±2%       | 60       | 0.34                   | 500                |
| 20  | LQW2BAS68NG00 | 10              | 68nH       | ±2%       | 60       | 0.38                   | 500                |
| 21  | LQW2BAS82NG00 | 10              | 82nH       | ±2%       | 65       | 0.42                   | 400                |
| 22  | LQW2BAS91NG00 | 10              | 91nH       | ±2%       | 65       | 0.48                   | 400                |
| 23  | LQW2BASR10G00 | 10              | 100nH      | ±2%       | 65       | 0.46                   | 400                |
| 24  | LQW2BASR11G00 | 10              | 110nH      | ±2%       | 50       | 0.48                   | 400                |
| 25  | LQW2BASR12G00 | 10              | 120nH      | ±2%       | 50       | 0.51                   | 400                |
| 26  | LQW2BASR15G00 | 10              | 150nH      | ±2%       | 50       | 0.56                   | 400                |
| 27  | LQW2BASR18G00 | 10              | 180nH      | ±2%       | 50       | 0.64                   | 400                |
| 28  | LQW2BASR22G00 | 10              | 220nH      | ±2%       | 50       | 0.70                   | 400                |
| 29  | LQW2BASR24G00 | 10              | 240nH      | ±2%       | 44       | 1.00                   | 350                |
| 30  | LQW2BASR27G00 | 10              | 270nH      | ±2%       | 48       | 1.00                   | 350                |
| 31  | LQW2BASR33G00 | 10              | 330nH      | ±2%       | 48       | 1.40                   | 310                |
| 32  | LQW2BASR39J00 | 10              | 390nH      | ±5%       | 48       | 1.50                   | 290                |
| 33  | LQW2BASR47J00 | 10              | 470nH      | ±5%       | 33       | 1.76                   | 250                |
| 34  | LQW2BASR56J00 | 10              | 560nH      | ±5%       | 23       | 1.90                   | 230                |
| 35  | LQW2BASR68J00 | 10              | 680nH      | ±5%       | 23       | 2.20                   | 190                |
| 36  | LQW2BASR82J00 | 10              | 820nH      | ±5%       | 23       | 2.35                   | 180                |
| 37  | LQW2UAS12NG00 | 10              | 12nH       | ±2%       | 50       | 0.09                   | 1000               |
| 38  | LQW2UAS18NG00 | 10              | 18nH       | ±2%       | 50       | 0.11                   | 1000               |
| 39  | LQW2UAS22NG00 | 10              | 22nH       | ±2%       | 55       | 0.12                   | 1000               |
| 40  | LQW2UAS27NG00 | 10              | 27nH       | ±2%       | 55       | 0.13                   | 1000               |
| 41  | LQW2UAS33NG00 | 10              | 33nH       | ±2%       | 60       | 0.14                   | 1000               |
| 42  | LQW2UAS39NG00 | 10              | 39nH       | ±2%       | 60       | 0.15                   | 1000               |
| 43  | LQW2UAS47NG00 | 10              | 47nH       | ±2%       | 65       | 0.16                   | 1000               |
| 44  | LQW2UAS56NG00 | 10              | 56nH       | ±2%       | 65       | 0.18                   | 1000               |
| 45  | LQW2UAS68NG00 | 10              | 68nH       | ±2%       | 65       | 0.2                    | 1000               |
| 46  | LQW2UAS82NG00 | 10              | 82nH       | ±2%       | 60       | 0.22                   | 1000               |
| 47  | LQW2UASR10G00 | 10              | 100nH      | ±2%       | 60       | 0.56                   | 650                |
| 48  | LQW2UASR12G00 | 10              | 120nH      | ±2%       | 60       | 0.63                   | 650                |
| 49  | LQW2UASR15G00 | 10              | 150nH      | ±2%       | 45       | 0.7                    | 580                |
| 50  | LQW2UASR18G00 | 10              | 180nH      | ±2%       | 45       | 0.77                   | 620                |
| 51  | LQW2UASR22G00 | 10              | 220nH      | ±2%       | 45       | 0.84                   | 500                |
| 52  | LQW2UASR27G00 | 10              | 270nH      | ±2%       | 45       | 0.91                   | 500                |
| 53  | LQW2UASR33G00 | 10              | 330nH      | ±2%       | 45       | 1.05                   | 450                |
| 54  | LQW2UASR39G00 | 10              | 390nH      | ±2%       | 45       | 1.12                   | 470                |
| 55  | LQW2UASR47G00 | 10              | 470nH      | ±2%       | 45       | 1.19                   | 470                |
| 56  | LQW2UASR56G00 | 10              | 560nH      | ±2%       | 45       | 1.33                   | 400                |
| 57  | LQW2UASR62G00 | 10              | 620nH      | ±2%       | 45       | 1.4                    | 300                |

Continued on the following page. 

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 Continued from the preceding page.

| No. | Part Number   | Quantity<br>(pcs.) | Inductance |           | Q<br>(min.) | DC Resistance<br>( $\Omega$ ) max. | Rated Current<br>(mA) |
|-----|---------------|--------------------|------------|-----------|-------------|------------------------------------|-----------------------|
|     |               |                    | Nominal    | Tolerance |             |                                    |                       |
| 58  | LQW2UASR68G00 | 10                 | 680nH      | $\pm 2\%$ | 45          | 1.47                               | 400                   |
| 59  | LQW2UASR75G00 | 10                 | 750nH      | $\pm 2\%$ | 45          | 1.54                               | 360                   |
| 60  | LQW2UASR82G00 | 10                 | 820nH      | $\pm 2\%$ | 45          | 1.61                               | 400                   |
| 61  | LQW2UASR91G00 | 10                 | 910nH      | $\pm 2\%$ | 35          | 1.68                               | 380                   |
| 62  | LQW2UAS1R0G00 | 10                 | 1000nH     | $\pm 2\%$ | 35          | 1.75                               | 370                   |
| 63  | LQW2UAS1R2J00 | 10                 | 1200nH     | $\pm 5\%$ | 35          | 2.0                                | 310                   |
| 64  | LQW2UAS1R5J00 | 10                 | 1500nH     | $\pm 5\%$ | 28          | 2.3                                | 330                   |
| 65  | LQW2UAS1R8J00 | 10                 | 1800nH     | $\pm 5\%$ | 28          | 2.6                                | 300                   |
| 66  | LQW2UAS2R2J00 | 10                 | 2200nH     | $\pm 5\%$ | 28          | 2.8                                | 280                   |
| 67  | LQW2UAS2R7J00 | 10                 | 2700nH     | $\pm 5\%$ | 22          | 3.2                                | 290                   |
| 68  | LQW2UAS3R3J00 | 10                 | 3300nH     | $\pm 5\%$ | 22          | 3.4                                | 290                   |
| 69  | LQW2UAS3R9J00 | 10                 | 3900nH     | $\pm 5\%$ | 20          | 3.6                                | 260                   |
| 70  | LQW2UAS4R7J00 | 10                 | 4700nH     | $\pm 5\%$ | 20          | 4.0                                | 260                   |

## Inductors for Power Lines

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# Introduction of Chip Inductors Web Site Design Support Software SimSurfing



**SimSurfing is the latest tool to get the electrical characteristics for Power Inductors or RF Inductors on the Internet !**

You can easily search and download the following data for Inductors with no special software.

## New Features 《Power Inductor Selection Tool》

Some function of Microsoft Excel® application version "Power Inductor Selection Tool" has been integrated to SimSurfing. (※)

**Start this tool on the category page in [power inductors].**

**Operating condition setting of DC-DC converter**

**Preferred power inductor to DC-DC converter operating condition will be listed in the format of ranking.**

| Part Number   | Inductance (μH) | Rated Current (A) | DC Resistance (mΩ) | Q Factor | Self Resonant Frequency (MHz) | Temperature Coefficient (ppm/°C) | Operating Temperature (°C) | Weight (g) |
|---------------|-----------------|-------------------|--------------------|----------|-------------------------------|----------------------------------|----------------------------|------------|
| 06032C100M050 | 10              | 0.05              | 50                 | 10       | 10                            | 100                              | -55~155                    | 0.001      |
| 06032C100M050 | 10              | 0.05              | 50                 | 10       | 10                            | 100                              | -55~155                    | 0.001      |
| 06032C100M050 | 10              | 0.05              | 50                 | 10       | 10                            | 100                              | -55~155                    | 0.001      |
| 06032C100M050 | 10              | 0.05              | 50                 | 10       | 10                            | 100                              | -55~155                    | 0.001      |
| 06032C100M050 | 10              | 0.05              | 50                 | 10       | 10                            | 100                              | -55~155                    | 0.001      |
| 06032C100M050 | 10              | 0.05              | 50                 | 10       | 10                            | 100                              | -55~155                    | 0.001      |
| 06032C100M050 | 10              | 0.05              | 50                 | 10       | 10                            | 100                              | -55~155                    | 0.001      |
| 06032C100M050 | 10              | 0.05              | 50                 | 10       | 10                            | 100                              | -55~155                    | 0.001      |
| 06032C100M050 | 10              | 0.05              | 50                 | 10       | 10                            | 100                              | -55~155                    | 0.001      |
| 06032C100M050 | 10              | 0.05              | 50                 | 10       | 10                            | 100                              | -55~155                    | 0.001      |

※The function of this tool is limited from Excel® application version.  
Excel® application version can be downloaded at following URL.  
[http://www.murata.com/products/design\\_support/dl\\_soft/index.html](http://www.murata.com/products/design_support/dl_soft/index.html)

<http://ds.murata.co.jp/software/simsurfing/en-us/>

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# Introduction of Chip Inductors Web Site



## EMICON-FUN!

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Have fun while learning about electronic components.  
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EMICON-FUN! is disseminated widely from basics (principles, characteristics, mounting, etc.) of capacitors, EMI suppression filters and inductors to information that can be used practically.

Updated information is also distributed via the mail magazine.

Click here to register as reader → <https://fofa.jp/murata/a.p/107/>

You can register from Murata Manufacturing Web site page TOP.  
<http://www.murata.com/products/>



← This banner is the entrance of register form

email Magazine: Have fun while learning about electronic components

**EMICON-FUN!** Wide range of information about capacitors, noise suppression filters, and inductors.

Murata Newsletter  
EMICON-FUN! also available.  
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Enter keywords to be searched Search

**Capacitor Room**

- Why does the electrostatic capacitance increase as the thickness decreases?
- Next-generation characteristics of capacitors and measurement methods
- What are impedance?
- ESR frequency characteristics in capacitors?
- The voltage characteristics of electrostatic capacitance
- The temperature characteristics of electrostatic capacitance

Entrance

**Noise suppression filter Room**

- How can the unwanted noise be reduced?  
-Methods of using low-ESL capacitors-
- Associate of monolithic ferrite bead development:  
Horizontally-wound-type ferrite beads that support GHz frequencies
- The secret story behind the birth of chip ferrite beads (part 1/2)
- The secret story behind the birth of chip ferrite beads (part 2/2)
- What is inrush current?

Entrance

**Inductor Room**

- Associate of inductor development [No.4]  
Japan's first air-core horizontal wire-wound coil
- Associate of inductor development [No.3]  
The LQG series realized super tight tolerance by trimming
- Why second-generation film-type inductors are incredible!
- Associate of inductor development [No.2]  
Birth of the first film-type inductor: the "LQP11A series"
- Inductor Applied Products Chapter 3: What are Dividers and Couplers?

Entrance

**For the earth**

- Special Feature on the Environment, Part 3 "Toward a Low-carbon Society - Initiatives for Global Warming Prevention"
- Special Feature on the Environment, Part II "Murata's Waste Management System"
- Environmental Packaging Materials

Entrance

#####  
email Magazine: Have fun while learning about electronic components  
EMICON-FUN!  
The index of Jan.28 issue  
- Inductor Room  
- Product News  
- Proposal of New Tape Packaging  
- Course for Noise Suppression against LTE Noise (3rd)  
Expertly written articles explain the basics of capacitors, inductors and EMI suppression filters.  
#####  
Inductor Room  
Why second-generation film-type inductors are incredible!  
The film-type inductor (LQP series) products are becoming increasingly smaller, but the main market for high-frequency inductors is currently the 0603 (in mm) / 0201 (in inch) size (0.6 x 0.3 mm). Murata components are also used in compact mobile devices such as smartphones. We would like to introduce the history and features of the LQP03TN\_02 series as a representative example.  
[http://www.murata.com/products/emicon\\_fun/2013/01/inductor\\_en28.html](http://www.murata.com/products/emicon_fun/2013/01/inductor_en28.html)  
#####  
Product News  
-Common Mode Choke Coil (Film Type)  
<DLPONS Series>  
1. Small size and tight dimensional tolerance  
Size: 0.85x0.65x0.45mm

Products Information

Chip Inductors product information page has been drastically updated.

<http://www.murata.com/products/inductor/>

- ▶ **Point 1**  
The product search engine has been replaced by powerful one!
- ▶ **Point 2**  
New contents such as inductors selection guide, products recommendation for each application has been added.
- ▶ **Point 3**  
Inductors are classified into high frequency inductors and power inductors.

**1** Search for Inductors (for high frequency, power lines, general purpose)

**2** Search in the lineups

**3** Search by specifications

**4** Search by competitor's part number

**5** Search by part number

Supporting your product development by the technology of Murata.

RF Inductors LQW15AN\_80 Series

Inductors for Power Lines LQH5BPB\_T0 Series

RF Inductors TOP

Inductors for Power Lines TOP

Advantages of Murata Inductors

Knowledge of Inductor

Inquiries

PDF Catalogs

Network - Global

Recently Asked Questions (FAQ)

**You can see product data from various viewpoint**

- 1** Search in the lineups  
Search product in product series lineup list.
- 2** Search by specifications  
Search product with specifications such as inductance value, rated current or dimension.
- 3** Search by competitor's part number  
Search Murata's alternative product specifying other vender's part numbers.
- 4** Search by part number  
Search product specifying Murata's part numbers.

**The top page is divided.**

Inductors for Power Lines (Coils)

RF Inductors (Coils)

Inductors for Power Lines

Search for Inductors (for high frequency, power lines, general purpose)

Search in the lineups

Search by specifications

Search by competitor's part number

Search by part number

Features and How to Select Inductors

Application Examples

Examples of Problem Solving

Advantages of Murata Inductors

Knowledge of Inductor

Design Tools

Frequently Asked Questions (FAQ)

Recommended contents

Technical Articles

Product News

Events & Exhibitions

Data Update Information

PR/CM/Photo

**You can make inquiry or download catalogs from here.**

**Explain about inductors from basic to practice**

**Design assistance tools such as characteristics viewers and simulation libraries**

**Frequently Asked Questions (FAQ)**

**Shows selection guides of Murata inductors, recommended products to each application.**

**⚠ Note:**

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No Murata products should be used or sold, through any channels, for use in the design, development, production, utilization, maintenance or operation of, or otherwise contribution to (1) any weapons (Weapons of Mass Destruction [nuclear, chemical or biological weapons or missiles] or conventional weapons) or (2) goods or systems specially designed or intended for military end-use or utilization by military end-users.

<For customers in Japan>

For products which are controlled items subject to the "Foreign Exchange and Foreign Trade Law" of Japan, the export license specified by the law is required for export.

**2. Please contact our sales representatives or product engineers before using the products in this catalog for the applications listed below, which require especially high reliability for the prevention of defects which might directly damage a third party's life, body or property, or when one of our products is intended for use in applications other than those specified in this catalog.**

- |                             |                                                                                                      |
|-----------------------------|------------------------------------------------------------------------------------------------------|
| ① Aircraft equipment        | ② Aerospace equipment                                                                                |
| ③ Undersea equipment        | ④ Power plant equipment                                                                              |
| ⑤ Medical equipment         | ⑥ Transportation equipment (vehicles, trains, ships, etc.)                                           |
| ⑦ Traffic signal equipment  | ⑧ Disaster prevention / crime prevention equipment                                                   |
| ⑨ Data-processing equipment | ⑩ Application of similar complexity and/or reliability requirements to the applications listed above |

**3. Product specifications in this catalog are as of September 2013. They are subject to change or our products in it may be discontinued without advance notice.**

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