



# Inductors for High Frequency Circuits

Multilayer Ceramic

## MLG-Q, MLG-P<sub>series</sub>

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MLG0402Q

0402 [01005 inch]\*

MLG0603P

0603 [0201 inch]

\* Dimensions Code JIS[EIA]

## REMINDERS FOR USING THESE PRODUCTS

Before using these products, be sure to request the delivery specifications.

### SAFETY REMINDERS

Please pay sufficient attention to the warnings for safe designing when using these products.

#### REMINDERS

- The storage period is less than 12 months. Be sure to follow the storage conditions (Temperature: 5 to 40°C, Humidity: 10 to 75% RH or less).  
If the storage period elapses, the soldering of the terminal electrodes may deteriorate.
- Do not use or store in locations where there are conditions such as gas corrosion (salt, acid, alkali, etc.).
- Before soldering, be sure to preheat components.  
The preheating temperature should be set so that the temperature difference between the solder temperature and chip temperature does not exceed 150°C.
- Soldering corrections after mounting should be within the range of the conditions determined in the specifications.  
If overheated, a short circuit, performance deterioration, or lifespan shortening may occur.
- When embedding a printed circuit board where a chip is mounted to a set, be sure that residual stress is not given to the chip due to the overall distortion of the printed circuit board and partial distortion such as at screw tightening portions.
- Self heating (temperature increase) occurs when the power is turned ON, so the tolerance should be sufficient for the set thermal design.
- Carefully lay out the coil for the circuit board design of the non-magnetic shield type.  
A malfunction may occur due to magnetic interference.
- Use a wrist band to discharge static electricity in your body through the grounding wire.
- Do not expose the products to magnets or magnetic fields.
- Do not use for a purpose outside of the contents regulated in the delivery specifications.
- The products listed on this catalog are intended for use in general electronic equipment (AV equipment, telecommunications equipment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement equipment, industrial robots) under a normal operation and use condition.  
The products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/or quality require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to society, person or property.  
If you intend to use the products in the applications listed below or if you have special requirements exceeding the range or conditions set forth in the each catalog, please contact us.

- (1) Aerospace/Aviation equipment
- (2) Transportation equipment (cars, electric trains, ships, etc.)
- (3) Medical equipment
- (4) Power-generation control equipment
- (5) Atomic energy-related equipment
- (6) Seabed equipment
- (7) Transportation control equipment

- (8) Public information-processing equipment
- (9) Military equipment
- (10) Electric heating apparatus, burning equipment
- (11) Disaster prevention/crime prevention equipment
- (12) Safety equipment
- (13) Other applications that are not considered general-purpose applications

When designing your equipment even for general-purpose applications, you are kindly requested to take into consideration securing protection circuit/device or providing backup circuits in your equipment.

# Inductors for High Frequency Circuits

## Multilayer Ceramic

Product compatible with RoHS directive  
Halogen-free  
Compatible with lead-free solders

# Overview of the MLG-Q, MLG-P Series

## FEATURES

- High Q type inductor for high-frequency circuits.
- The 0402 Series has 0.2 to 33nH, and the 0603 Series has 0.6 to 120nH.
- 0.1n step inductance lineup.
- Compared with existing products, the size was greatly reduced, making it optimal for fine-pitch circuits.
- Optimal configuration that greatly improves the Q to 800MHz or higher.
- Advanced monolithic structure is formed using a multilayering and sintering process with ceramic and conductive materials for High-frequency.

## APPLICATION

Smart phones, tablet terminals, high frequency modules (PAs, VCOs, FEMs , etc.), Bluetooth, W-LAN, UWB, tuners and other high frequency circuits for the mobile communication industry

## PART NUMBER CONSTRUCTION

| MLG         | 0402             |             | Q               | 0N2        |     | S                    |   | T               |   | 000           |        |
|-------------|------------------|-------------|-----------------|------------|-----|----------------------|---|-----------------|---|---------------|--------|
| Series name | LxWxH Dimensions |             | Characteristics | Inductance |     | Inductance tolerance |   | Packaging style |   | Internal code |        |
|             | (mm)             |             |                 | (μH)       |     |                      |   |                 |   |               |        |
|             | 0402             | 0.4x0.2x0.2 |                 | P          | 1N1 | 1.1                  | B | ±0.1nH          | T |               | Taping |
|             | 0603             | 0.6x0.3x0.3 |                 | Q          | 11N | 11                   | C | ±0.2nH          |   |               |        |
|             |                  |             |                 |            |     |                      | S | ±0.3nH          |   |               |        |
|             |                  |             |                 |            | H   | ±3%                  |   |                 |   |               |        |
|             |                  |             |                 |            | J   | ±5%                  |   |                 |   |               |        |

## OPERATING TEMPERATURE RANGE, PACKAGE QUANTITY, PRODUCT WEIGHT

| Type     | Temperature range     |                      | Package quantity | Individual weight |
|----------|-----------------------|----------------------|------------------|-------------------|
|          | Operating temperature | Storage temperature* |                  |                   |
|          | (°C)                  | (°C)                 | (pieces/reel)    | (mg)              |
| MLG0402Q | -55 to +125           | -55 to +125          | 20000            | 0.07              |
| MLG0603P | -55 to +125           | -55 to +125          | 15000            | 0.2               |

\* The Storage temperature range is for after the circuit board is mounted.

○ RoHS Directive Compliant Product: See the following for more details related to RoHS Directive compliant products. <http://www.tdk.co.jp/rohs/>

○ Halogen-free: Indicates that Cl content is less than 900ppm, Br content is less than 900ppm, and that the total Cl and Br content is less than 1500ppm.

• All specifications are subject to change without notice.

# Overview of the MLG-Q, MLG-P Series

## RECOMMENDED REFLOW PROFILE



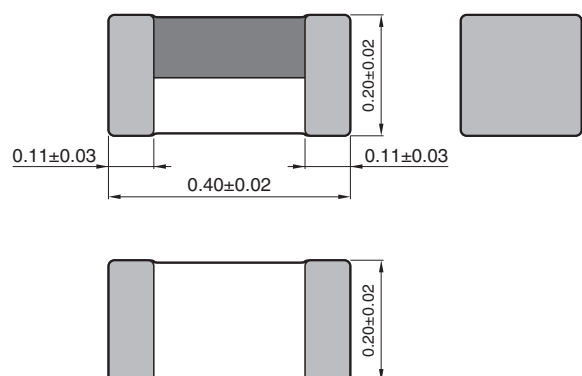
| Preheating |       |            | Soldering |           | Peak         |          |
|------------|-------|------------|-----------|-----------|--------------|----------|
| Temp.      |       | Time       | Temp.     | Time      | Temp.        | Time     |
| T1         | T2    | t1         | T3        | t2        | T4           | t3       |
| 150°C      | 180°C | 60 to 120s | 230°C     | 30 to 60s | 250 to 260°C | 10s max. |

MLG-Q<sub>series</sub>

# MLG0402Q Type

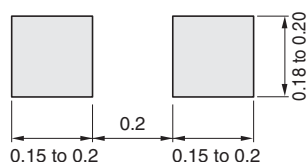


## ■ SHAPE & DIMENSIONS



Dimensions in mm

## ■ RECOMMENDED LAND PATTERN



Dimensions in mm

MLG-Q<sub>series</sub> **MLG0402Q Type**

## ■ ELECTRICAL CHARACTERISTICS

## □ CHARACTERISTICS SPECIFICATION TABLE

| L<br>(nH) | Tolerance          | Q<br>min. | L, Q measuring<br>frequency<br>(MHz) | Self-resonant<br>frequency<br>(GHz) |      | DC resistance<br>( $\Omega$ ) |      | Rated current<br>(mA)<br>max. | Part No.*        |
|-----------|--------------------|-----------|--------------------------------------|-------------------------------------|------|-------------------------------|------|-------------------------------|------------------|
|           |                    |           |                                      | min.                                | typ. | max.                          | typ. |                               |                  |
| 0.2       | $\pm 0.1\text{nH}$ | —         | 100                                  | 10.0                                | 20.0 | 0.10                          | 0.03 | 350                           | MLG0402Q0N2BT000 |
| 0.2       | $\pm 0.2\text{nH}$ | —         | 100                                  | 10.0                                | 20.0 | 0.10                          | 0.03 | 350                           | MLG0402Q0N2CT000 |
| 0.3       | $\pm 0.1\text{nH}$ | —         | 100                                  | 10.0                                | 18.5 | 0.20                          | 0.07 | 350                           | MLG0402Q0N3BT000 |
| 0.3       | $\pm 0.2\text{nH}$ | —         | 100                                  | 10.0                                | 18.5 | 0.20                          | 0.07 | 350                           | MLG0402Q0N3CT000 |
| 0.4       | $\pm 0.1\text{nH}$ | —         | 100                                  | 10.0                                | 20.0 | 0.20                          | 0.08 | 350                           | MLG0402Q0N4BT000 |
| 0.4       | $\pm 0.2\text{nH}$ | —         | 100                                  | 10.0                                | 20.0 | 0.20                          | 0.08 | 350                           | MLG0402Q0N4CT000 |
| 0.5       | $\pm 0.1\text{nH}$ | —         | 100                                  | 10.0                                | 20.0 | 0.20                          | 0.11 | 350                           | MLG0402Q0N5BT000 |
| 0.5       | $\pm 0.2\text{nH}$ | —         | 100                                  | 10.0                                | 20.0 | 0.20                          | 0.11 | 350                           | MLG0402Q0N5CT000 |
| 0.6       | $\pm 0.1\text{nH}$ | —         | 100                                  | 10.0                                | 20.0 | 0.30                          | 0.13 | 320                           | MLG0402Q0N6BT000 |
| 0.6       | $\pm 0.2\text{nH}$ | —         | 100                                  | 10.0                                | 20.0 | 0.30                          | 0.13 | 320                           | MLG0402Q0N6CT000 |
| 0.7       | $\pm 0.1\text{nH}$ | —         | 100                                  | 10.0                                | 20.0 | 0.40                          | 0.19 | 320                           | MLG0402Q0N7BT000 |
| 0.7       | $\pm 0.2\text{nH}$ | —         | 100                                  | 10.0                                | 20.0 | 0.40                          | 0.19 | 320                           | MLG0402Q0N7CT000 |
| 0.8       | $\pm 0.1\text{nH}$ | —         | 100                                  | 10.0                                | 19.5 | 0.40                          | 0.11 | 320                           | MLG0402Q0N8BT000 |
| 0.8       | $\pm 0.2\text{nH}$ | —         | 100                                  | 10.0                                | 19.5 | 0.40                          | 0.11 | 320                           | MLG0402Q0N8CT000 |
| 0.9       | $\pm 0.1\text{nH}$ | —         | 100                                  | 10.0                                | 20.0 | 0.40                          | 0.15 | 320                           | MLG0402Q0N9BT000 |
| 0.9       | $\pm 0.2\text{nH}$ | —         | 100                                  | 10.0                                | 20.0 | 0.40                          | 0.15 | 320                           | MLG0402Q0N9CT000 |
| 1.0       | $\pm 0.1\text{nH}$ | 2         | 100                                  | 10.0                                | 16.8 | 0.40                          | 0.20 | 250                           | MLG0402Q1N0BT000 |
| 1.0       | $\pm 0.2\text{nH}$ | 2         | 100                                  | 10.0                                | 16.8 | 0.40                          | 0.20 | 250                           | MLG0402Q1N0CT000 |
| 1.0       | $\pm 0.3\text{nH}$ | 2         | 100                                  | 10.0                                | 16.8 | 0.40                          | 0.20 | 250                           | MLG0402Q1N0ST000 |
| 1.1       | $\pm 0.1\text{nH}$ | 2         | 100                                  | 10.0                                | 16.6 | 0.50                          | 0.22 | 250                           | MLG0402Q1N1BT000 |
| 1.1       | $\pm 0.2\text{nH}$ | 2         | 100                                  | 10.0                                | 16.6 | 0.50                          | 0.22 | 250                           | MLG0402Q1N1CT000 |
| 1.1       | $\pm 0.3\text{nH}$ | 2         | 100                                  | 10.0                                | 16.6 | 0.50                          | 0.22 | 250                           | MLG0402Q1N1ST000 |
| 1.2       | $\pm 0.1\text{nH}$ | 2         | 100                                  | 10.0                                | 16.2 | 0.50                          | 0.25 | 250                           | MLG0402Q1N2BT000 |
| 1.2       | $\pm 0.2\text{nH}$ | 2         | 100                                  | 10.0                                | 16.2 | 0.50                          | 0.25 | 250                           | MLG0402Q1N2CT000 |
| 1.2       | $\pm 0.3\text{nH}$ | 2         | 100                                  | 10.0                                | 16.2 | 0.50                          | 0.25 | 250                           | MLG0402Q1N2ST000 |
| 1.3       | $\pm 0.1\text{nH}$ | 2         | 100                                  | 10.0                                | 16.0 | 0.60                          | 0.28 | 250                           | MLG0402Q1N3BT000 |
| 1.3       | $\pm 0.2\text{nH}$ | 2         | 100                                  | 10.0                                | 16.0 | 0.60                          | 0.28 | 250                           | MLG0402Q1N3CT000 |
| 1.3       | $\pm 0.3\text{nH}$ | 2         | 100                                  | 10.0                                | 16.0 | 0.60                          | 0.28 | 250                           | MLG0402Q1N3ST000 |
| 1.4       | $\pm 0.1\text{nH}$ | 2         | 100                                  | 10.0                                | 15.8 | 0.60                          | 0.30 | 250                           | MLG0402Q1N4BT000 |
| 1.4       | $\pm 0.2\text{nH}$ | 2         | 100                                  | 10.0                                | 15.8 | 0.60                          | 0.30 | 250                           | MLG0402Q1N4CT000 |
| 1.4       | $\pm 0.3\text{nH}$ | 2         | 100                                  | 10.0                                | 15.8 | 0.60                          | 0.30 | 250                           | MLG0402Q1N4ST000 |
| 1.5       | $\pm 0.1\text{nH}$ | 2         | 100                                  | 10.0                                | 15.6 | 0.60                          | 0.37 | 220                           | MLG0402Q1N5BT000 |
| 1.5       | $\pm 0.2\text{nH}$ | 2         | 100                                  | 10.0                                | 15.6 | 0.60                          | 0.37 | 220                           | MLG0402Q1N5CT000 |
| 1.5       | $\pm 0.3\text{nH}$ | 2         | 100                                  | 10.0                                | 15.6 | 0.60                          | 0.37 | 220                           | MLG0402Q1N5ST000 |
| 1.6       | $\pm 0.1\text{nH}$ | 2         | 100                                  | 10.0                                | 14.4 | 0.60                          | 0.25 | 220                           | MLG0402Q1N6BT000 |
| 1.6       | $\pm 0.2\text{nH}$ | 2         | 100                                  | 10.0                                | 14.4 | 0.60                          | 0.25 | 220                           | MLG0402Q1N6CT000 |
| 1.6       | $\pm 0.3\text{nH}$ | 2         | 100                                  | 10.0                                | 14.4 | 0.60                          | 0.25 | 220                           | MLG0402Q1N6ST000 |
| 1.7       | $\pm 0.1\text{nH}$ | 2         | 100                                  | 10.0                                | 13.4 | 0.60                          | 0.25 | 200                           | MLG0402Q1N7BT000 |
| 1.7       | $\pm 0.2\text{nH}$ | 2         | 100                                  | 10.0                                | 13.4 | 0.60                          | 0.25 | 200                           | MLG0402Q1N7CT000 |
| 1.7       | $\pm 0.3\text{nH}$ | 2         | 100                                  | 10.0                                | 13.4 | 0.60                          | 0.25 | 200                           | MLG0402Q1N7ST000 |
| 1.8       | $\pm 0.1\text{nH}$ | 2         | 100                                  | 10.0                                | 13.9 | 0.60                          | 0.28 | 200                           | MLG0402Q1N8BT000 |
| 1.8       | $\pm 0.2\text{nH}$ | 2         | 100                                  | 10.0                                | 13.9 | 0.60                          | 0.28 | 200                           | MLG0402Q1N8CT000 |
| 1.8       | $\pm 0.3\text{nH}$ | 2         | 100                                  | 10.0                                | 13.9 | 0.60                          | 0.28 | 200                           | MLG0402Q1N8ST000 |
| 1.9       | $\pm 0.1\text{nH}$ | 2         | 100                                  | 9.0                                 | 12.2 | 0.60                          | 0.27 | 200                           | MLG0402Q1N9BT000 |
| 1.9       | $\pm 0.2\text{nH}$ | 2         | 100                                  | 9.0                                 | 12.2 | 0.60                          | 0.27 | 200                           | MLG0402Q1N9CT000 |
| 1.9       | $\pm 0.3\text{nH}$ | 2         | 100                                  | 9.0                                 | 12.2 | 0.60                          | 0.27 | 200                           | MLG0402Q1N9ST000 |

\* Please contact us for information on inductance tolerance, G ( $\pm 2\%$ ).

## ○ Measurement equipment

| Measurement item        | Product No.  | Manufacturer         |
|-------------------------|--------------|----------------------|
| L, Q                    | 4291B+16196D | Agilent Technologies |
| Self-resonant frequency | 8720C        | Agilent Technologies |
| DC resistance           | 4338A        | Agilent Technologies |

\* Equivalent measurement equipment may be used.

MLG-Q<sub>series</sub> **MLG0402Q Type**

## ■ ELECTRICAL CHARACTERISTICS

## □ CHARACTERISTICS SPECIFICATION TABLE

| L<br>(nH) | Tolerance          | Q<br>min. | L, Q measuring<br>frequency<br>(MHz) | Self-resonant<br>frequency<br>(GHz) |      | DC resistance<br>( $\Omega$ ) |      | Rated current<br>(mA)<br>max. | Part No.*        |
|-----------|--------------------|-----------|--------------------------------------|-------------------------------------|------|-------------------------------|------|-------------------------------|------------------|
|           |                    |           |                                      | min.                                | typ. | max.                          | typ. |                               |                  |
| 2.0       | $\pm 0.1\text{nH}$ | 2         | 100                                  | 9.0                                 | 12.5 | 0.60                          | 0.30 | 200                           | MLG0402Q2N0BT000 |
| 2.0       | $\pm 0.2\text{nH}$ | 2         | 100                                  | 9.0                                 | 12.5 | 0.60                          | 0.30 | 200                           | MLG0402Q2N0CT000 |
| 2.0       | $\pm 0.3\text{nH}$ | 2         | 100                                  | 9.0                                 | 12.5 | 0.60                          | 0.30 | 200                           | MLG0402Q2N0ST000 |
| 2.1       | $\pm 0.1\text{nH}$ | 2         | 100                                  | 8.0                                 | 11.8 | 0.70                          | 0.36 | 200                           | MLG0402Q2N1BT000 |
| 2.1       | $\pm 0.2\text{nH}$ | 2         | 100                                  | 8.0                                 | 11.8 | 0.70                          | 0.36 | 200                           | MLG0402Q2N1CT000 |
| 2.1       | $\pm 0.3\text{nH}$ | 2         | 100                                  | 8.0                                 | 11.8 | 0.70                          | 0.36 | 200                           | MLG0402Q2N1ST000 |
| 2.2       | $\pm 0.1\text{nH}$ | 2         | 100                                  | 8.0                                 | 11.7 | 0.80                          | 0.43 | 200                           | MLG0402Q2N2BT000 |
| 2.2       | $\pm 0.2\text{nH}$ | 2         | 100                                  | 8.0                                 | 11.7 | 0.80                          | 0.43 | 200                           | MLG0402Q2N2CT000 |
| 2.2       | $\pm 0.3\text{nH}$ | 2         | 100                                  | 8.0                                 | 11.7 | 0.80                          | 0.43 | 200                           | MLG0402Q2N2ST000 |
| 2.3       | $\pm 0.1\text{nH}$ | 2         | 100                                  | 7.0                                 | 11.0 | 0.80                          | 0.46 | 200                           | MLG0402Q2N3BT000 |
| 2.3       | $\pm 0.2\text{nH}$ | 2         | 100                                  | 7.0                                 | 11.0 | 0.80                          | 0.46 | 200                           | MLG0402Q2N3CT000 |
| 2.3       | $\pm 0.3\text{nH}$ | 2         | 100                                  | 7.0                                 | 11.0 | 0.80                          | 0.46 | 200                           | MLG0402Q2N3ST000 |
| 2.4       | $\pm 0.1\text{nH}$ | 2         | 100                                  | 7.0                                 | 10.9 | 0.80                          | 0.43 | 200                           | MLG0402Q2N4BT000 |
| 2.4       | $\pm 0.2\text{nH}$ | 2         | 100                                  | 7.0                                 | 10.9 | 0.80                          | 0.43 | 200                           | MLG0402Q2N4CT000 |
| 2.4       | $\pm 0.3\text{nH}$ | 2         | 100                                  | 7.0                                 | 10.9 | 0.80                          | 0.43 | 200                           | MLG0402Q2N4ST000 |
| 2.5       | $\pm 0.1\text{nH}$ | 2         | 100                                  | 7.0                                 | 10.5 | 0.80                          | 0.54 | 200                           | MLG0402Q2N5BT000 |
| 2.5       | $\pm 0.2\text{nH}$ | 2         | 100                                  | 7.0                                 | 10.5 | 0.80                          | 0.54 | 200                           | MLG0402Q2N5CT000 |
| 2.5       | $\pm 0.3\text{nH}$ | 2         | 100                                  | 7.0                                 | 10.5 | 0.80                          | 0.54 | 200                           | MLG0402Q2N5ST000 |
| 2.6       | $\pm 0.1\text{nH}$ | 2         | 100                                  | 7.0                                 | 10.7 | 0.80                          | 0.54 | 200                           | MLG0402Q2N6BT000 |
| 2.6       | $\pm 0.2\text{nH}$ | 2         | 100                                  | 7.0                                 | 10.7 | 0.80                          | 0.54 | 200                           | MLG0402Q2N6CT000 |
| 2.6       | $\pm 0.3\text{nH}$ | 2         | 100                                  | 7.0                                 | 10.7 | 0.80                          | 0.54 | 200                           | MLG0402Q2N6ST000 |
| 2.7       | $\pm 0.1\text{nH}$ | 2         | 100                                  | 7.0                                 | 10.7 | 0.80                          | 0.54 | 200                           | MLG0402Q2N7BT000 |
| 2.7       | $\pm 0.2\text{nH}$ | 2         | 100                                  | 7.0                                 | 10.7 | 0.80                          | 0.54 | 200                           | MLG0402Q2N7CT000 |
| 2.7       | $\pm 0.3\text{nH}$ | 2         | 100                                  | 7.0                                 | 10.7 | 0.80                          | 0.54 | 200                           | MLG0402Q2N7ST000 |
| 2.8       | $\pm 0.1\text{nH}$ | 2         | 100                                  | 7.0                                 | 10.4 | 0.80                          | 0.56 | 200                           | MLG0402Q2N8BT000 |
| 2.8       | $\pm 0.2\text{nH}$ | 2         | 100                                  | 7.0                                 | 10.4 | 0.80                          | 0.56 | 200                           | MLG0402Q2N8CT000 |
| 2.8       | $\pm 0.3\text{nH}$ | 2         | 100                                  | 7.0                                 | 10.4 | 0.80                          | 0.56 | 200                           | MLG0402Q2N8ST000 |
| 2.9       | $\pm 0.1\text{nH}$ | 2         | 100                                  | 7.0                                 | 10.0 | 0.80                          | 0.52 | 200                           | MLG0402Q2N9BT000 |
| 2.9       | $\pm 0.2\text{nH}$ | 2         | 100                                  | 7.0                                 | 10.0 | 0.80                          | 0.52 | 200                           | MLG0402Q2N9CT000 |
| 2.9       | $\pm 0.3\text{nH}$ | 2         | 100                                  | 7.0                                 | 10.0 | 0.80                          | 0.52 | 200                           | MLG0402Q2N9ST000 |
| 3.0       | $\pm 0.1\text{nH}$ | 2         | 100                                  | 7.0                                 | 10.0 | 0.80                          | 0.45 | 200                           | MLG0402Q3N0BT000 |
| 3.0       | $\pm 0.2\text{nH}$ | 2         | 100                                  | 7.0                                 | 10.0 | 0.80                          | 0.45 | 200                           | MLG0402Q3N0CT000 |
| 3.0       | $\pm 0.3\text{nH}$ | 2         | 100                                  | 7.0                                 | 10.0 | 0.80                          | 0.45 | 200                           | MLG0402Q3N0ST000 |
| 3.1       | $\pm 0.1\text{nH}$ | 2         | 100                                  | 7.0                                 | 9.7  | 0.90                          | 0.58 | 200                           | MLG0402Q3N1BT000 |
| 3.1       | $\pm 0.2\text{nH}$ | 2         | 100                                  | 7.0                                 | 9.7  | 0.90                          | 0.58 | 200                           | MLG0402Q3N1CT000 |
| 3.1       | $\pm 0.3\text{nH}$ | 2         | 100                                  | 7.0                                 | 9.7  | 0.90                          | 0.58 | 200                           | MLG0402Q3N1ST000 |
| 3.2       | $\pm 0.1\text{nH}$ | 2         | 100                                  | 7.0                                 | 9.4  | 1.00                          | 0.66 | 200                           | MLG0402Q3N2BT000 |
| 3.2       | $\pm 0.2\text{nH}$ | 2         | 100                                  | 7.0                                 | 9.4  | 1.00                          | 0.66 | 200                           | MLG0402Q3N2CT000 |
| 3.2       | $\pm 0.3\text{nH}$ | 2         | 100                                  | 7.0                                 | 9.4  | 1.00                          | 0.66 | 200                           | MLG0402Q3N2ST000 |
| 3.3       | $\pm 0.1\text{nH}$ | 2         | 100                                  | 7.0                                 | 10.0 | 1.10                          | 0.73 | 180                           | MLG0402Q3N3BT000 |
| 3.3       | $\pm 0.2\text{nH}$ | 2         | 100                                  | 7.0                                 | 10.0 | 1.10                          | 0.73 | 180                           | MLG0402Q3N3CT000 |
| 3.3       | $\pm 0.3\text{nH}$ | 2         | 100                                  | 7.0                                 | 10.0 | 1.10                          | 0.73 | 180                           | MLG0402Q3N3ST000 |
| 3.4       | $\pm 0.1\text{nH}$ | 2         | 100                                  | 6.5                                 | 9.1  | 1.10                          | 0.73 | 180                           | MLG0402Q3N4BT000 |
| 3.4       | $\pm 0.2\text{nH}$ | 2         | 100                                  | 6.5                                 | 9.1  | 1.10                          | 0.73 | 180                           | MLG0402Q3N4CT000 |
| 3.4       | $\pm 0.3\text{nH}$ | 2         | 100                                  | 6.5                                 | 9.1  | 1.10                          | 0.73 | 180                           | MLG0402Q3N4ST000 |
| 3.5       | $\pm 0.1\text{nH}$ | 2         | 100                                  | 6.0                                 | 9.0  | 1.10                          | 0.74 | 180                           | MLG0402Q3N5BT000 |
| 3.5       | $\pm 0.2\text{nH}$ | 2         | 100                                  | 6.0                                 | 9.0  | 1.10                          | 0.74 | 180                           | MLG0402Q3N5CT000 |
| 3.5       | $\pm 0.3\text{nH}$ | 2         | 100                                  | 6.0                                 | 9.0  | 1.10                          | 0.74 | 180                           | MLG0402Q3N5ST000 |

\* Please contact us for information on inductance tolerance, G ( $\pm 2\%$ ).

## ○ Measurement equipment

| Measurement item        | Product No.  | Manufacturer         |
|-------------------------|--------------|----------------------|
| L, Q                    | 4291B+16196D | Agilent Technologies |
| Self-resonant frequency | 8720C        | Agilent Technologies |
| DC resistance           | 4338A        | Agilent Technologies |

\* Equivalent measurement equipment may be used.

• All specifications are subject to change without notice.

MLG-Q<sub>series</sub> **MLG0402Q Type**

## ■ ELECTRICAL CHARACTERISTICS

## □ CHARACTERISTICS SPECIFICATION TABLE

| L<br>(nH) | Tolerance | Q<br>min. | L, Q measuring<br>frequency<br>(MHz) | Self-resonant<br>frequency<br>(GHz) |      | DC resistance<br>(Ω) |      | Rated current<br>(mA)<br>max. | Part No.*        |
|-----------|-----------|-----------|--------------------------------------|-------------------------------------|------|----------------------|------|-------------------------------|------------------|
|           |           |           |                                      | min.                                | typ. | max.                 | typ. |                               |                  |
| 3.6       | ±0.1nH    | 2         | 100                                  | 6.0                                 | 9.0  | 1.10                 | 0.75 | 180                           | MLG0402Q3N6BT000 |
| 3.6       | ±0.2nH    | 2         | 100                                  | 6.0                                 | 9.0  | 1.10                 | 0.75 | 180                           | MLG0402Q3N6CT000 |
| 3.6       | ±0.3nH    | 2         | 100                                  | 6.0                                 | 9.0  | 1.10                 | 0.75 | 180                           | MLG0402Q3N6ST000 |
| 3.7       | ±0.1nH    | 2         | 100                                  | 6.0                                 | 8.9  | 1.10                 | 0.73 | 180                           | MLG0402Q3N7BT000 |
| 3.7       | ±0.2nH    | 2         | 100                                  | 6.0                                 | 8.9  | 1.10                 | 0.73 | 180                           | MLG0402Q3N7CT000 |
| 3.7       | ±0.3nH    | 2         | 100                                  | 6.0                                 | 8.9  | 1.10                 | 0.73 | 180                           | MLG0402Q3N7ST000 |
| 3.8       | ±0.1nH    | 2         | 100                                  | 6.0                                 | 8.4  | 1.10                 | 0.70 | 180                           | MLG0402Q3N8BT000 |
| 3.8       | ±0.2nH    | 2         | 100                                  | 6.0                                 | 8.4  | 1.10                 | 0.70 | 180                           | MLG0402Q3N8CT000 |
| 3.8       | ±0.3nH    | 2         | 100                                  | 6.0                                 | 8.4  | 1.10                 | 0.70 | 180                           | MLG0402Q3N8ST000 |
| 3.9       | ±0.1nH    | 2         | 100                                  | 6.0                                 | 8.8  | 1.20                 | 0.77 | 180                           | MLG0402Q3N9BT000 |
| 3.9       | ±0.2nH    | 2         | 100                                  | 6.0                                 | 8.8  | 1.20                 | 0.77 | 180                           | MLG0402Q3N9CT000 |
| 3.9       | ±0.3nH    | 2         | 100                                  | 6.0                                 | 8.8  | 1.20                 | 0.77 | 180                           | MLG0402Q3N9ST000 |
| 4.0       | ±0.1nH    | 2         | 100                                  | 6.0                                 | 8.4  | 1.20                 | 0.71 | 180                           | MLG0402Q4N0BT000 |
| 4.0       | ±0.2nH    | 2         | 100                                  | 6.0                                 | 8.4  | 1.20                 | 0.71 | 180                           | MLG0402Q4N0CT000 |
| 4.0       | ±0.3nH    | 2         | 100                                  | 6.0                                 | 8.4  | 1.20                 | 0.71 | 180                           | MLG0402Q4N0ST000 |
| 4.3       | ±0.3nH    | 2         | 100                                  | 6.0                                 | 8.6  | 1.20                 | 0.77 | 180                           | MLG0402Q4N3ST000 |
| 4.3       | ±3%       | 2         | 100                                  | 6.0                                 | 8.6  | 1.20                 | 0.77 | 180                           | MLG0402Q4N3HT000 |
| 4.7       | ±0.3nH    | 2         | 100                                  | 6.0                                 | 8.1  | 1.30                 | 0.88 | 160                           | MLG0402Q4N7ST000 |
| 4.7       | ±3%       | 2         | 100                                  | 6.0                                 | 8.1  | 1.30                 | 0.88 | 160                           | MLG0402Q4N7HT000 |
| 5.1       | ±0.3nH    | 2         | 100                                  | 6.0                                 | 7.8  | 1.40                 | 0.90 | 160                           | MLG0402Q5N1ST000 |
| 5.1       | ±3%       | 2         | 100                                  | 6.0                                 | 7.8  | 1.40                 | 0.90 | 160                           | MLG0402Q5N1HT000 |
| 5.6       | ±0.3nH    | 2         | 100                                  | 6.0                                 | 7.8  | 1.50                 | 1.02 | 140                           | MLG0402Q5N6ST000 |
| 5.6       | ±3%       | 2         | 100                                  | 6.0                                 | 7.8  | 1.50                 | 1.02 | 140                           | MLG0402Q5N6HT000 |
| 6.2       | ±0.3nH    | 2         | 100                                  | 5.5                                 | 7.2  | 1.50                 | 1.04 | 140                           | MLG0402Q6N2ST000 |
| 6.2       | ±3%       | 2         | 100                                  | 5.5                                 | 7.2  | 1.50                 | 1.04 | 140                           | MLG0402Q6N2HT000 |
| 6.8       | ±3%       | 2         | 100                                  | 5.5                                 | 6.9  | 1.60                 | 1.12 | 140                           | MLG0402Q6N8HT000 |
| 6.8       | ±5%       | 2         | 100                                  | 5.5                                 | 6.9  | 1.60                 | 1.12 | 140                           | MLG0402Q6N8JT000 |
| 7.5       | ±3%       | 2         | 100                                  | 5.0                                 | 6.7  | 1.70                 | 1.13 | 140                           | MLG0402Q7N5HT000 |
| 7.5       | ±5%       | 2         | 100                                  | 5.0                                 | 6.7  | 1.70                 | 1.13 | 140                           | MLG0402Q7N5JT000 |
| 8.2       | ±3%       | 2         | 100                                  | 4.5                                 | 6.2  | 1.80                 | 1.16 | 140                           | MLG0402Q8N2HT000 |
| 8.2       | ±5%       | 2         | 100                                  | 4.5                                 | 6.2  | 1.80                 | 1.16 | 140                           | MLG0402Q8N2JT000 |
| 9.1       | ±3%       | 2         | 100                                  | 4.0                                 | 5.7  | 1.80                 | 1.20 | 140                           | MLG0402Q9N1HT000 |
| 9.1       | ±5%       | 2         | 100                                  | 4.0                                 | 5.7  | 1.80                 | 1.20 | 140                           | MLG0402Q9N1JT000 |
| 10.0      | ±3%       | 3         | 100                                  | 4.0                                 | 5.3  | 2.10                 | 1.45 | 140                           | MLG0402Q10NHT000 |
| 10.0      | ±5%       | 3         | 100                                  | 4.0                                 | 5.3  | 2.10                 | 1.45 | 140                           | MLG0402Q10NJT000 |
| 12.0      | ±3%       | 3         | 100                                  | 3.5                                 | 4.8  | 2.40                 | 1.64 | 140                           | MLG0402Q12NHT000 |
| 12.0      | ±5%       | 3         | 100                                  | 3.5                                 | 4.8  | 2.40                 | 1.64 | 140                           | MLG0402Q12NJT000 |
| 15.0      | ±3%       | 3         | 100                                  | 3.0                                 | 4.5  | 2.60                 | 1.77 | 140                           | MLG0402Q15NHT000 |
| 15.0      | ±5%       | 3         | 100                                  | 3.0                                 | 4.5  | 2.60                 | 1.77 | 140                           | MLG0402Q15NJT000 |
| 18.0      | ±3%       | 3         | 100                                  | 2.5                                 | 3.0  | 2.80                 | 1.94 | 140                           | MLG0402Q18NHT000 |
| 18.0      | ±5%       | 3         | 100                                  | 2.5                                 | 3.0  | 2.80                 | 1.94 | 140                           | MLG0402Q18NJT000 |
| 22.0      | ±3%       | 3         | 100                                  | 2.2                                 | 2.7  | 3.20                 | 2.18 | 130                           | MLG0402Q22NHT000 |
| 22.0      | ±5%       | 3         | 100                                  | 2.2                                 | 2.7  | 3.20                 | 2.18 | 130                           | MLG0402Q22NJT000 |
| 27.0      | ±3%       | 3         | 100                                  | 1.9                                 | 2.5  | 3.50                 | 2.44 | 120                           | MLG0402Q27NHT000 |
| 27.0      | ±5%       | 3         | 100                                  | 1.9                                 | 2.5  | 3.50                 | 2.44 | 120                           | MLG0402Q27NJT000 |
| 33.0      | ±3%       | 3         | 100                                  | 1.7                                 | 2.2  | 3.80                 | 2.71 | 120                           | MLG0402Q33NHT000 |
| 33.0      | ±5%       | 3         | 100                                  | 1.7                                 | 2.2  | 3.80                 | 2.71 | 120                           | MLG0402Q33NJT000 |

\* Please contact us for information on inductance tolerance, G (±2%).

## ○ Measurement equipment

| Measurement item        | Product No.  | Manufacturer         |
|-------------------------|--------------|----------------------|
| L, Q                    | 4291B+16196D | Agilent Technologies |
| Self-resonant frequency | 8720C        | Agilent Technologies |
| DC resistance           | 4338A        | Agilent Technologies |

\* Equivalent measurement equipment may be used.

• All specifications are subject to change without notice.

MLG-Q<sub>series</sub> **MLG0402Q Type**

## ■ ELECTRICAL CHARACTERISTICS

## □ L, Q FREQUENCY CHARACTERISTICS TABLE

| L(nH)typ. |        |        |        |        | Q typ. |        |        |        |        | Part No.*        |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------------------|
| 500MHz    | 800MHz | 1.8GHz | 2.0GHz | 2.4GHz | 500MHz | 800MHz | 1.8GHz | 2.0GHz | 2.4GHz |                  |
| 0.2       | 0.2    | 0.2    | 0.2    | 0.2    | 8      | 11     | 18     | 20     | 23     | MLG0402Q0N2BT000 |
| 0.2       | 0.2    | 0.2    | 0.2    | 0.2    | 8      | 11     | 18     | 20     | 23     | MLG0402Q0N2CT000 |
| 0.3       | 0.3    | 0.3    | 0.3    | 0.3    | 7      | 9      | 15     | 16     | 19     | MLG0402Q0N3BT000 |
| 0.3       | 0.3    | 0.3    | 0.3    | 0.3    | 7      | 9      | 15     | 16     | 19     | MLG0402Q0N3CT000 |
| 0.4       | 0.4    | 0.4    | 0.4    | 0.3    | 9      | 12     | 19     | 20     | 22     | MLG0402Q0N4BT000 |
| 0.4       | 0.4    | 0.4    | 0.4    | 0.3    | 9      | 12     | 19     | 20     | 22     | MLG0402Q0N4CT000 |
| 0.5       | 0.5    | 0.4    | 0.4    | 0.4    | 9      | 12     | 19     | 21     | 23     | MLG0402Q0N5BT000 |
| 0.5       | 0.5    | 0.4    | 0.4    | 0.4    | 9      | 12     | 19     | 21     | 23     | MLG0402Q0N5CT000 |
| 0.6       | 0.5    | 0.5    | 0.5    | 0.5    | 7      | 11     | 17     | 18     | 20     | MLG0402Q0N6BT000 |
| 0.6       | 0.5    | 0.5    | 0.5    | 0.5    | 7      | 11     | 17     | 18     | 20     | MLG0402Q0N6CT000 |
| 0.7       | 0.7    | 0.6    | 0.6    | 0.6    | 8      | 11     | 18     | 19     | 22     | MLG0402Q0N7BT000 |
| 0.7       | 0.7    | 0.7    | 0.7    | 0.7    | 9      | 12     | 20     | 21     | 24     | MLG0402Q0N8BT000 |
| 0.7       | 0.7    | 0.6    | 0.6    | 0.6    | 8      | 11     | 18     | 19     | 22     | MLG0402Q0N7CT000 |
| 0.7       | 0.7    | 0.7    | 0.7    | 0.7    | 9      | 12     | 20     | 21     | 24     | MLG0402Q0N8CT000 |
| 0.8       | 0.8    | 0.8    | 0.8    | 0.8    | 10     | 13     | 21     | 23     | 26     | MLG0402Q0N9BT000 |
| 0.8       | 0.8    | 0.8    | 0.8    | 0.8    | 10     | 13     | 21     | 23     | 26     | MLG0402Q0N9CT000 |
| 0.9       | 0.9    | 0.9    | 0.9    | 0.9    | 10     | 12     | 20     | 22     | 25     | MLG0402Q1N0BT000 |
| 0.9       | 0.9    | 0.9    | 0.9    | 0.9    | 10     | 12     | 20     | 22     | 25     | MLG0402Q1N0CT000 |
| 0.9       | 0.9    | 0.9    | 0.9    | 0.9    | 10     | 12     | 20     | 22     | 25     | MLG0402Q1N0ST000 |
| 1.0       | 1.0    | 1.0    | 1.0    | 1.0    | 9      | 12     | 20     | 22     | 25     | MLG0402Q1N1BT000 |
| 1.0       | 1.0    | 1.0    | 1.0    | 1.0    | 9      | 12     | 20     | 22     | 25     | MLG0402Q1N1CT000 |
| 1.0       | 1.0    | 1.0    | 1.0    | 1.0    | 9      | 12     | 20     | 22     | 25     | MLG0402Q1N1ST000 |
| 1.1       | 1.1    | 1.1    | 1.1    | 1.1    | 9      | 12     | 20     | 21     | 24     | MLG0402Q1N2BT000 |
| 1.1       | 1.1    | 1.1    | 1.1    | 1.1    | 9      | 12     | 20     | 21     | 24     | MLG0402Q1N2CT000 |
| 1.1       | 1.1    | 1.1    | 1.1    | 1.1    | 9      | 12     | 20     | 21     | 24     | MLG0402Q1N2ST000 |
| 1.2       | 1.2    | 1.2    | 1.2    | 1.2    | 9      | 12     | 20     | 22     | 25     | MLG0402Q1N3BT000 |
| 1.2       | 1.2    | 1.2    | 1.2    | 1.2    | 9      | 12     | 20     | 22     | 25     | MLG0402Q1N3CT000 |
| 1.2       | 1.2    | 1.2    | 1.2    | 1.2    | 9      | 12     | 20     | 22     | 25     | MLG0402Q1N3ST000 |
| 1.3       | 1.3    | 1.3    | 1.3    | 1.3    | 9      | 12     | 20     | 22     | 25     | MLG0402Q1N4BT000 |
| 1.3       | 1.3    | 1.3    | 1.3    | 1.3    | 9      | 12     | 20     | 22     | 25     | MLG0402Q1N4CT000 |
| 1.3       | 1.3    | 1.3    | 1.3    | 1.3    | 9      | 12     | 20     | 22     | 25     | MLG0402Q1N4ST000 |
| 1.4       | 1.4    | 1.4    | 1.4    | 1.4    | 9      | 12     | 19     | 21     | 23     | MLG0402Q1N5BT000 |
| 1.4       | 1.4    | 1.4    | 1.4    | 1.4    | 9      | 12     | 19     | 21     | 23     | MLG0402Q1N5CT000 |
| 1.4       | 1.4    | 1.4    | 1.4    | 1.4    | 9      | 12     | 19     | 21     | 23     | MLG0402Q1N5ST000 |
| 1.5       | 1.5    | 1.4    | 1.4    | 1.4    | 10     | 13     | 22     | 23     | 26     | MLG0402Q1N6BT000 |
| 1.5       | 1.5    | 1.4    | 1.4    | 1.4    | 10     | 13     | 22     | 23     | 26     | MLG0402Q1N6CT000 |
| 1.5       | 1.5    | 1.4    | 1.4    | 1.4    | 10     | 13     | 22     | 23     | 26     | MLG0402Q1N6ST000 |
| 1.6       | 1.5    | 1.5    | 1.5    | 1.5    | 10     | 13     | 21     | 23     | 25     | MLG0402Q1N7BT000 |
| 1.6       | 1.5    | 1.5    | 1.5    | 1.5    | 10     | 13     | 21     | 23     | 25     | MLG0402Q1N7CT000 |
| 1.6       | 1.5    | 1.5    | 1.5    | 1.5    | 10     | 13     | 21     | 23     | 25     | MLG0402Q1N7ST000 |
| 1.7       | 1.6    | 1.6    | 1.6    | 1.6    | 11     | 14     | 22     | 24     | 27     | MLG0402Q1N8BT000 |
| 1.7       | 1.6    | 1.6    | 1.6    | 1.6    | 11     | 14     | 22     | 24     | 27     | MLG0402Q1N8CT000 |
| 1.7       | 1.6    | 1.6    | 1.6    | 1.6    | 11     | 14     | 22     | 24     | 27     | MLG0402Q1N8ST000 |

\* Please contact us for information on inductance tolerance, G ( $\pm 2\%$ ).

## ○ Measurement equipment

| Product No.  | Manufacturer         |
|--------------|----------------------|
| 4291B+16196D | Agilent Technologies |

\* Equivalent measurement equipment may be used.

MLG-Q<sub>series</sub> **MLG0402Q Type**

## ■ ELECTRICAL CHARACTERISTICS

## □ L, Q FREQUENCY CHARACTERISTICS TABLE

| L (nH) typ. |        |        |        |        | Q typ. |        |        |        |        | Part No.*        |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------------------|
| 500MHz      | 800MHz | 1.8GHz | 2.0GHz | 2.4GHz | 500MHz | 800MHz | 1.8GHz | 2.0GHz | 2.4GHz |                  |
| 1.8         | 1.8    | 1.7    | 1.7    | 1.7    | 10     | 14     | 22     | 24     | 27     | MLG0402Q1N9BT000 |
| 1.8         | 1.8    | 1.7    | 1.7    | 1.7    | 10     | 14     | 22     | 24     | 27     | MLG0402Q1N9CT000 |
| 1.8         | 1.8    | 1.7    | 1.7    | 1.7    | 10     | 14     | 22     | 24     | 27     | MLG0402Q1N9ST000 |
| 1.9         | 1.8    | 1.8    | 1.8    | 1.8    | 10     | 13     | 21     | 23     | 26     | MLG0402Q2N0BT000 |
| 1.9         | 1.8    | 1.8    | 1.8    | 1.8    | 10     | 13     | 21     | 23     | 26     | MLG0402Q2N0CT000 |
| 1.9         | 1.8    | 1.8    | 1.8    | 1.8    | 10     | 13     | 21     | 23     | 26     | MLG0402Q2N0ST000 |
| 2.0         | 2.0    | 1.9    | 1.9    | 1.9    | 10     | 14     | 22     | 24     | 27     | MLG0402Q2N1BT000 |
| 2.0         | 2.0    | 1.9    | 1.9    | 1.9    | 10     | 14     | 22     | 24     | 27     | MLG0402Q2N1CT000 |
| 2.0         | 2.0    | 1.9    | 1.9    | 1.9    | 10     | 14     | 22     | 24     | 27     | MLG0402Q2N1ST000 |
| 2.1         | 2.1    | 2.0    | 2.0    | 2.0    | 10     | 14     | 22     | 24     | 27     | MLG0402Q2N2BT000 |
| 2.1         | 2.1    | 2.0    | 2.0    | 2.0    | 10     | 14     | 22     | 24     | 27     | MLG0402Q2N2CT000 |
| 2.1         | 2.1    | 2.0    | 2.0    | 2.0    | 10     | 14     | 22     | 24     | 27     | MLG0402Q2N2ST000 |
| 2.2         | 2.2    | 2.1    | 2.1    | 2.2    | 10     | 13     | 21     | 23     | 25     | MLG0402Q2N3BT000 |
| 2.2         | 2.2    | 2.1    | 2.1    | 2.2    | 10     | 13     | 21     | 23     | 25     | MLG0402Q2N3CT000 |
| 2.2         | 2.2    | 2.1    | 2.1    | 2.2    | 10     | 13     | 21     | 23     | 25     | MLG0402Q2N3ST000 |
| 2.3         | 2.3    | 2.2    | 2.2    | 2.2    | 9      | 13     | 21     | 22     | 25     | MLG0402Q2N4BT000 |
| 2.3         | 2.3    | 2.2    | 2.2    | 2.2    | 9      | 13     | 21     | 22     | 25     | MLG0402Q2N4CT000 |
| 2.3         | 2.3    | 2.2    | 2.2    | 2.2    | 9      | 13     | 21     | 22     | 25     | MLG0402Q2N4ST000 |
| 2.4         | 2.4    | 2.3    | 2.3    | 2.4    | 10     | 13     | 21     | 22     | 25     | MLG0402Q2N5BT000 |
| 2.4         | 2.4    | 2.3    | 2.3    | 2.4    | 10     | 13     | 21     | 22     | 25     | MLG0402Q2N5CT000 |
| 2.4         | 2.4    | 2.3    | 2.3    | 2.4    | 10     | 13     | 21     | 22     | 25     | MLG0402Q2N5ST000 |
| 2.5         | 2.5    | 2.4    | 2.4    | 2.4    | 10     | 13     | 20     | 22     | 24     | MLG0402Q2N6BT000 |
| 2.5         | 2.5    | 2.5    | 2.5    | 2.5    | 10     | 13     | 21     | 23     | 25     | MLG0402Q2N7BT000 |
| 2.5         | 2.5    | 2.4    | 2.4    | 2.4    | 10     | 13     | 20     | 22     | 24     | MLG0402Q2N6CT000 |
| 2.5         | 2.5    | 2.5    | 2.5    | 2.5    | 10     | 13     | 21     | 23     | 25     | MLG0402Q2N7CT000 |
| 2.5         | 2.5    | 2.4    | 2.4    | 2.4    | 10     | 13     | 20     | 22     | 24     | MLG0402Q2N6ST000 |
| 2.5         | 2.5    | 2.5    | 2.5    | 2.5    | 10     | 13     | 21     | 23     | 25     | MLG0402Q2N7ST000 |
| 2.6         | 2.6    | 2.6    | 2.6    | 2.6    | 10     | 13     | 20     | 22     | 24     | MLG0402Q2N8BT000 |
| 2.6         | 2.6    | 2.6    | 2.6    | 2.6    | 10     | 13     | 20     | 22     | 24     | MLG0402Q2N8CT000 |
| 2.6         | 2.6    | 2.6    | 2.6    | 2.6    | 10     | 13     | 20     | 22     | 24     | MLG0402Q2N8ST000 |
| 2.7         | 2.7    | 2.7    | 2.7    | 2.7    | 10     | 13     | 20     | 21     | 23     | MLG0402Q2N9BT000 |
| 2.7         | 2.7    | 2.7    | 2.7    | 2.7    | 10     | 13     | 20     | 21     | 23     | MLG0402Q2N9CT000 |
| 2.7         | 2.7    | 2.7    | 2.7    | 2.7    | 10     | 13     | 20     | 21     | 23     | MLG0402Q2N9ST000 |
| 2.8         | 2.8    | 2.7    | 2.7    | 2.8    | 10     | 13     | 20     | 21     | 23     | MLG0402Q3N0BT000 |
| 2.8         | 2.8    | 2.7    | 2.7    | 2.8    | 10     | 13     | 20     | 21     | 23     | MLG0402Q3N0CT000 |
| 2.8         | 2.8    | 2.7    | 2.7    | 2.8    | 10     | 13     | 20     | 21     | 23     | MLG0402Q3N0ST000 |
| 2.9         | 2.9    | 2.9    | 2.9    | 2.9    | 9      | 12     | 19     | 21     | 23     | MLG0402Q3N1BT000 |
| 2.9         | 2.9    | 2.9    | 2.9    | 2.9    | 9      | 12     | 19     | 21     | 23     | MLG0402Q3N1CT000 |
| 2.9         | 2.9    | 2.9    | 2.9    | 2.9    | 9      | 12     | 19     | 21     | 23     | MLG0402Q3N1ST000 |
| 3.0         | 3.0    | 3.0    | 3.0    | 3.0    | 9      | 12     | 19     | 20     | 22     | MLG0402Q3N2BT000 |
| 3.0         | 3.0    | 3.0    | 3.0    | 3.0    | 9      | 12     | 19     | 20     | 22     | MLG0402Q3N2CT000 |
| 3.0         | 3.0    | 3.0    | 3.0    | 3.0    | 9      | 12     | 19     | 20     | 22     | MLG0402Q3N2ST000 |

\* Please contact us for information on inductance tolerance, G ( $\pm 2\%$ ).

## ○ Measurement equipment

| Product No.  | Manufacturer         |
|--------------|----------------------|
| 4291B+16196D | Agilent Technologies |

\* Equivalent measurement equipment may be used.

MLG-Q<sub>series</sub> **MLG0402Q Type**

## ■ ELECTRICAL CHARACTERISTICS

## □ L, Q FREQUENCY CHARACTERISTICS TABLE

| L(nH)typ. |        |        |        |        | Q typ. |        |        |        |        | Part No.*        |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------------------|
| 500MHz    | 800MHz | 1.8GHz | 2.0GHz | 2.4GHz | 500MHz | 800MHz | 1.8GHz | 2.0GHz | 2.4GHz |                  |
| 3.2       | 3.1    | 3.1    | 3.1    | 3.1    | 9      | 12     | 19     | 21     | 23     | MLG0402Q3N3BT000 |
| 3.2       | 3.2    | 3.2    | 3.2    | 3.2    | 9      | 12     | 19     | 20     | 22     | MLG0402Q3N4BT000 |
| 3.2       | 3.1    | 3.1    | 3.1    | 3.1    | 9      | 12     | 19     | 21     | 23     | MLG0402Q3N3CT000 |
| 3.2       | 3.2    | 3.2    | 3.2    | 3.2    | 9      | 12     | 19     | 20     | 22     | MLG0402Q3N4CT000 |
| 3.2       | 3.1    | 3.1    | 3.1    | 3.1    | 9      | 12     | 19     | 21     | 23     | MLG0402Q3N3ST000 |
| 3.2       | 3.2    | 3.2    | 3.2    | 3.2    | 9      | 12     | 19     | 20     | 22     | MLG0402Q3N4ST000 |
| 3.3       | 3.3    | 3.3    | 3.3    | 3.3    | 9      | 12     | 19     | 20     | 22     | MLG0402Q3N5BT000 |
| 3.3       | 3.3    | 3.3    | 3.3    | 3.3    | 9      | 12     | 19     | 20     | 22     | MLG0402Q3N5CT000 |
| 3.3       | 3.3    | 3.3    | 3.3    | 3.3    | 9      | 12     | 19     | 20     | 22     | MLG0402Q3N5ST000 |
| 3.4       | 3.4    | 3.4    | 3.4    | 3.4    | 10     | 13     | 20     | 22     | 24     | MLG0402Q3N6BT000 |
| 3.4       | 3.4    | 3.4    | 3.4    | 3.4    | 10     | 13     | 20     | 22     | 24     | MLG0402Q3N6CT000 |
| 3.4       | 3.4    | 3.4    | 3.4    | 3.4    | 10     | 13     | 20     | 22     | 24     | MLG0402Q3N6ST000 |
| 3.5       | 3.5    | 3.4    | 3.5    | 3.5    | 9      | 12     | 19     | 21     | 23     | MLG0402Q3N7BT000 |
| 3.5       | 3.5    | 3.4    | 3.5    | 3.5    | 9      | 12     | 19     | 21     | 23     | MLG0402Q3N7CT000 |
| 3.5       | 3.5    | 3.4    | 3.5    | 3.5    | 9      | 12     | 19     | 21     | 23     | MLG0402Q3N7ST000 |
| 3.6       | 3.6    | 3.5    | 3.6    | 3.6    | 10     | 13     | 19     | 21     | 23     | MLG0402Q3N8BT000 |
| 3.6       | 3.6    | 3.5    | 3.6    | 3.6    | 10     | 13     | 19     | 21     | 23     | MLG0402Q3N8CT000 |
| 3.6       | 3.6    | 3.5    | 3.6    | 3.6    | 10     | 13     | 19     | 21     | 23     | MLG0402Q3N8ST000 |
| 3.7       | 3.7    | 3.7    | 3.7    | 3.7    | 9      | 12     | 19     | 20     | 22     | MLG0402Q3N9BT000 |
| 3.7       | 3.7    | 3.7    | 3.7    | 3.7    | 9      | 12     | 19     | 20     | 22     | MLG0402Q3N9CT000 |
| 3.7       | 3.7    | 3.7    | 3.7    | 3.7    | 9      | 12     | 19     | 20     | 22     | MLG0402Q3N9ST000 |
| 3.8       | 3.8    | 3.7    | 3.8    | 3.8    | 9      | 12     | 19     | 20     | 22     | MLG0402Q4N0BT000 |
| 3.8       | 3.8    | 3.7    | 3.8    | 3.8    | 9      | 12     | 19     | 20     | 22     | MLG0402Q4N0CT000 |
| 3.8       | 3.8    | 3.7    | 3.8    | 3.8    | 9      | 12     | 19     | 20     | 22     | MLG0402Q4N0ST000 |
| 4.1       | 4.0    | 4.0    | 4.0    | 4.1    | 10     | 13     | 21     | 23     | 25     | MLG0402Q4N3ST000 |
| 4.1       | 4.0    | 4.0    | 4.0    | 4.1    | 10     | 13     | 21     | 23     | 25     | MLG0402Q4N3HT000 |
| 4.5       | 4.5    | 4.5    | 4.5    | 4.6    | 10     | 13     | 21     | 23     | 25     | MLG0402Q4N7ST000 |
| 4.5       | 4.5    | 4.5    | 4.5    | 4.6    | 10     | 13     | 21     | 23     | 25     | MLG0402Q4N7HT000 |
| 4.8       | 4.8    | 4.8    | 4.8    | 4.9    | 10     | 13     | 20     | 22     | 24     | MLG0402Q5N1ST000 |
| 4.8       | 4.8    | 4.8    | 4.8    | 4.9    | 10     | 13     | 20     | 22     | 24     | MLG0402Q5N1HT000 |
| 5.3       | 5.3    | 5.3    | 5.3    | 5.4    | 11     | 14     | 22     | 23     | 25     | MLG0402Q5N6ST000 |
| 5.3       | 5.3    | 5.3    | 5.3    | 5.4    | 11     | 14     | 22     | 23     | 25     | MLG0402Q5N6HT000 |
| 5.9       | 5.8    | 5.9    | 5.9    | 6.0    | 11     | 14     | 21     | 23     | 25     | MLG0402Q6N2ST000 |
| 5.9       | 5.8    | 5.9    | 5.9    | 6.0    | 11     | 14     | 21     | 23     | 25     | MLG0402Q6N2HT000 |
| 6.5       | 6.4    | 6.5    | 6.6    | 6.7    | 10     | 13     | 21     | 22     | 23     | MLG0402Q6N8HT000 |
| 6.5       | 6.4    | 6.5    | 6.6    | 6.7    | 10     | 13     | 21     | 22     | 23     | MLG0402Q6N8JT000 |
| 7.1       | 7.0    | 7.1    | 7.2    | 7.4    | 11     | 14     | 22     | 23     | 25     | MLG0402Q7N5HT000 |
| 7.1       | 7.0    | 7.1    | 7.2    | 7.4    | 11     | 14     | 22     | 23     | 25     | MLG0402Q7N5JT000 |
| 7.8       | 7.8    | 7.9    | 8.0    | 8.3    | 11     | 14     | 21     | 23     | 24     | MLG0402Q8N2HT000 |
| 7.8       | 7.8    | 7.9    | 8.0    | 8.3    | 11     | 14     | 21     | 23     | 24     | MLG0402Q8N2JT000 |
| 8.6       | 8.5    | 8.7    | 8.8    | 9.1    | 11     | 14     | 21     | 23     | 24     | MLG0402Q9N1HT000 |
| 8.6       | 8.5    | 8.7    | 8.8    | 9.1    | 11     | 14     | 21     | 23     | 24     | MLG0402Q9N1JT000 |

\* Please contact us for information on inductance tolerance, G ( $\pm 2\%$ ).

## ○ Measurement equipment

| Product No.  | Manufacturer         |
|--------------|----------------------|
| 4291B+16196D | Agilent Technologies |

\* Equivalent measurement equipment may be used.

MLG-Q<sub>series</sub> **MLG0402Q Type**

## ■ ELECTRICAL CHARACTERISTICS

## □ L, Q FREQUENCY CHARACTERISTICS TABLE

| L(nH)typ. |        |        |        |        | Q typ. |        |        |        |        | Part No.*        |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------------------|
| 500MHz    | 800MHz | 1.8GHz | 2.0GHz | 2.4GHz | 500MHz | 800MHz | 1.8GHz | 2.0GHz | 2.4GHz |                  |
| 9.5       | 9.5    | 9.8    | 9.9    | 10.3   | 11     | 14     | 21     | 22     | 23     | MLG0402Q10NHT000 |
| 9.5       | 9.5    | 9.8    | 9.9    | 10.3   | 11     | 14     | 21     | 22     | 23     | MLG0402Q10NJT000 |
| 11.4      | 11.4   | 11.9   | 12.2   | 12.8   | 11     | 13     | 20     | 21     | 21     | MLG0402Q12NHT000 |
| 11.4      | 11.4   | 11.9   | 12.2   | 12.8   | 11     | 13     | 20     | 21     | 21     | MLG0402Q12NJT000 |
| 14.1      | 14.0   | 14.8   | 15.2   | 16.2   | 11     | 14     | 20     | 21     | 21     | MLG0402Q15NHT000 |
| 14.1      | 14.0   | 14.8   | 15.2   | 16.2   | 11     | 14     | 20     | 21     | 21     | MLG0402Q15NJT000 |
| 17.0      | 17.2   | 21.3   | 23.3   | 29.2   | 11     | 13     | 16     | 16     | 13     | MLG0402Q18NHT000 |
| 17.0      | 17.2   | 21.3   | 23.3   | 29.2   | 11     | 13     | 16     | 16     | 13     | MLG0402Q18NJT000 |
| 20.7      | 21.1   | 28.1   | 32.0   | 45.2   | 10     | 12     | 13     | 12     | 9      | MLG0402Q22NHT000 |
| 20.7      | 21.1   | 28.1   | 32.0   | 45.2   | 10     | 12     | 13     | 12     | 9      | MLG0402Q22NJT000 |
| 25.3      | 25.7   | 34.1   | 38.9   |        | 10     | 12     | 12     | 11     |        | MLG0402Q27NHT000 |
| 25.3      | 25.7   | 34.1   | 38.9   |        | 10     | 12     | 12     | 11     |        | MLG0402Q27NJT000 |
| 31.0      | 32.2   | 52.2   |        |        | 10     | 12     | 10     |        |        | MLG0402Q33NHT000 |
| 31.0      | 32.2   | 52.2   |        |        | 10     | 12     | 10     |        |        | MLG0402Q33NJT000 |

\* Please contact us for information on inductance tolerance, G ( $\pm 2\%$ ).

## ○ Measurement equipment

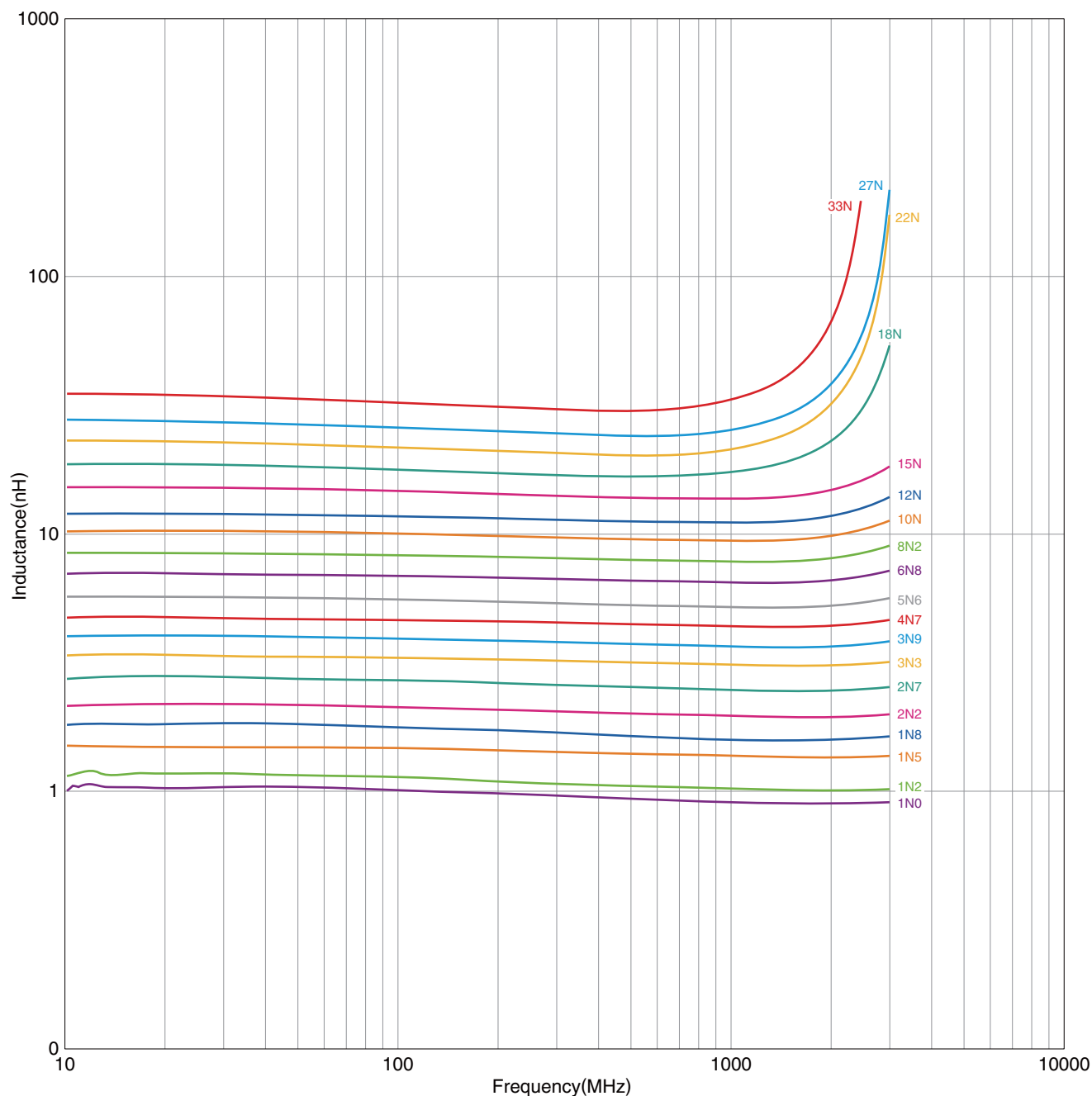
| Product No.  | Manufacturer         |
|--------------|----------------------|
| 4291B+16196D | Agilent Technologies |

\* Equivalent measurement equipment may be used.

MLG-Q<sub>series</sub> **MLG0402Q Type**

## ■ ELECTRICAL CHARACTERISTICS

## □ L FREQUENCY CHARACTERISTICS GRAPH (EXAMPLE)



○ Measurement equipment

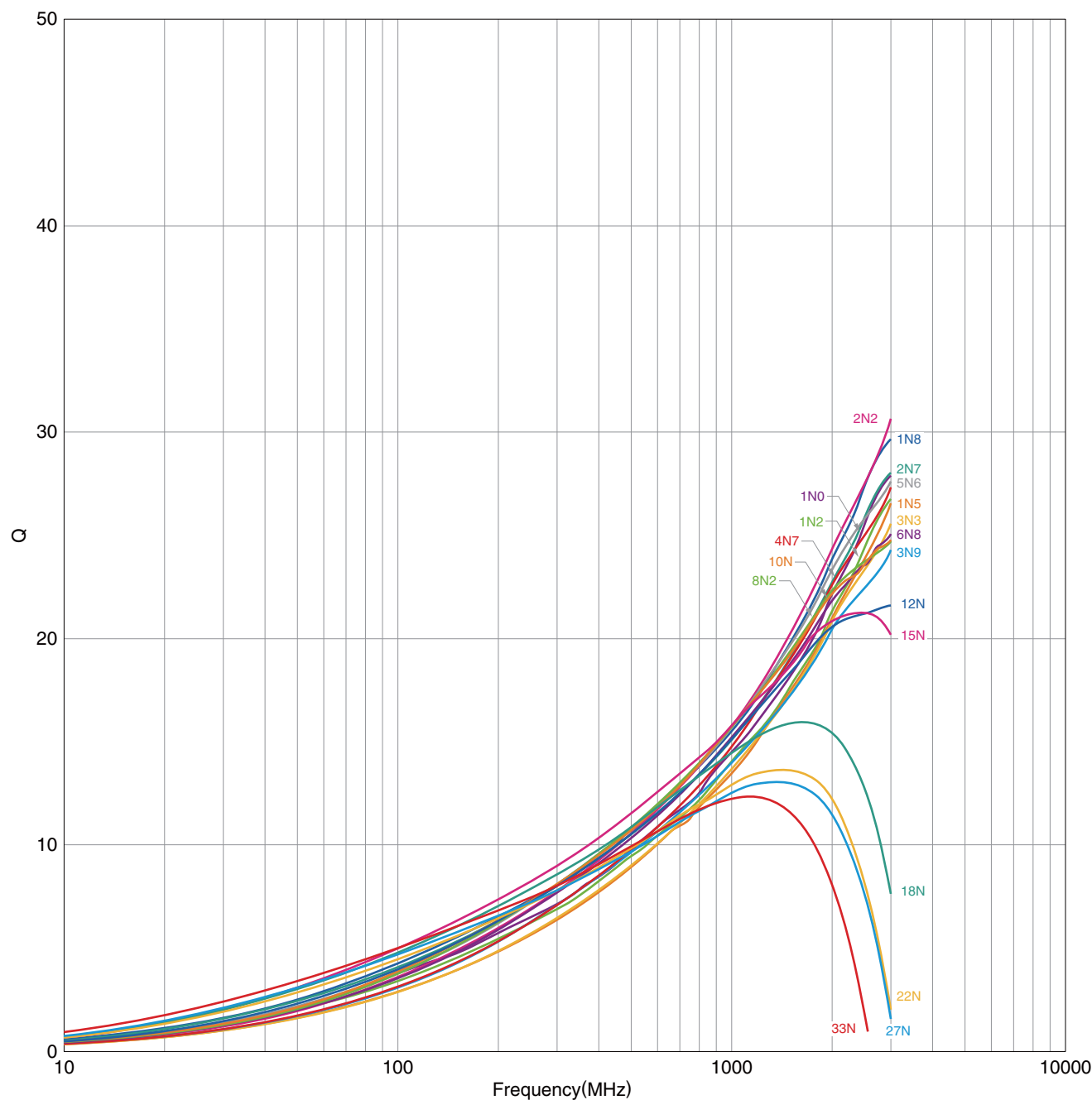
| Product No.   | Manufacturer         |
|---------------|----------------------|
| E4991A+16196D | Agilent Technologies |

\* Equivalent measurement equipment may be used.

MLG-Q<sub>series</sub> **MLG0402Q Type**

## ■ ELECTRICAL CHARACTERISTICS

## □ Q FREQUENCY CHARACTERISTICS GRAPH (EXAMPLE)



○ Measurement equipment

| Product No.   | Manufacturer         |
|---------------|----------------------|
| E4991A+16196D | Agilent Technologies |

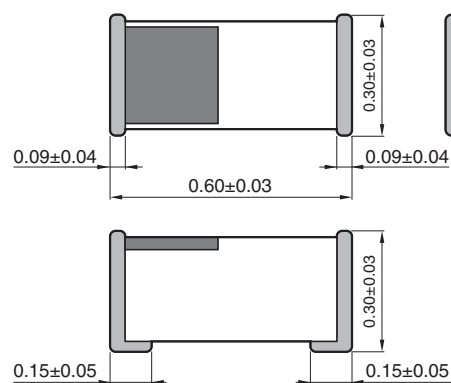
\* Equivalent measurement equipment may be used.

MLG-P<sub>series</sub>

# MLG0603P Type

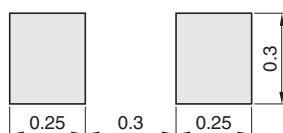


## SHAPE & DIMENSIONS



Dimensions in mm

## RECOMMENDED LAND PATTERN



Dimensions in mm

MLG-P<sub>series</sub> **MLG0603P Type**

## ■ ELECTRICAL CHARACTERISTICS

## □ CHARACTERISTICS SPECIFICATION TABLE

| L<br>(nH) | Tolerance | Q<br>min. | L, Q measuring<br>frequency<br>(MHz) | Self-resonant<br>frequency<br>(GHz) |      | DC resistance<br>( $\Omega$ ) |      | Rated current<br>(mA)<br>max. | Part No.*        |
|-----------|-----------|-----------|--------------------------------------|-------------------------------------|------|-------------------------------|------|-------------------------------|------------------|
|           |           |           |                                      | min.                                | typ. | max.                          | typ. |                               |                  |
| 0.6       | ±0.1nH    | —         | 500                                  | 10.0                                | 20.0 | 0.06                          | 0.01 | 1000                          | MLG0603P0N6BT000 |
| 0.6       | ±0.2nH    | —         | 500                                  | 10.0                                | 20.0 | 0.06                          | 0.01 | 1000                          | MLG0603P0N6CT000 |
| 0.7       | ±0.1nH    | —         | 500                                  | 10.0                                | 20.0 | 0.06                          | 0.01 | 1000                          | MLG0603P0N7BT000 |
| 0.7       | ±0.2nH    | —         | 500                                  | 10.0                                | 20.0 | 0.06                          | 0.01 | 1000                          | MLG0603P0N7CT000 |
| 0.8       | ±0.1nH    | —         | 500                                  | 10.0                                | 20.0 | 0.06                          | 0.02 | 1000                          | MLG0603P0N8BT000 |
| 0.8       | ±0.2nH    | —         | 500                                  | 10.0                                | 20.0 | 0.06                          | 0.02 | 1000                          | MLG0603P0N8CT000 |
| 0.9       | ±0.1nH    | —         | 500                                  | 10.0                                | 20.0 | 0.06                          | 0.02 | 1000                          | MLG0603P0N9BT000 |
| 0.9       | ±0.2nH    | —         | 500                                  | 10.0                                | 20.0 | 0.06                          | 0.02 | 1000                          | MLG0603P0N9CT000 |
| 1.0       | ±0.3nH    | 14        | 500                                  | 10.0                                | 20.0 | 0.07                          | 0.02 | 1000                          | MLG0603P1N0ST000 |
| 1.0       | ±0.1nH    | 14        | 500                                  | 10.0                                | 20.0 | 0.07                          | 0.02 | 1000                          | MLG0603P1N0BT000 |
| 1.0       | ±0.2nH    | 14        | 500                                  | 10.0                                | 20.0 | 0.07                          | 0.02 | 1000                          | MLG0603P1N0CT000 |
| 1.1       | ±0.3nH    | 14        | 500                                  | 10.0                                | 19.9 | 0.07                          | 0.03 | 1000                          | MLG0603P1N1ST000 |
| 1.1       | ±0.1nH    | 14        | 500                                  | 10.0                                | 19.9 | 0.07                          | 0.03 | 1000                          | MLG0603P1N1BT000 |
| 1.1       | ±0.2nH    | 14        | 500                                  | 10.0                                | 19.9 | 0.07                          | 0.03 | 1000                          | MLG0603P1N1CT000 |
| 1.2       | ±0.3nH    | 14        | 500                                  | 10.0                                | 16.0 | 0.08                          | 0.04 | 800                           | MLG0603P1N2ST000 |
| 1.2       | ±0.1nH    | 14        | 500                                  | 10.0                                | 16.0 | 0.08                          | 0.04 | 800                           | MLG0603P1N2BT000 |
| 1.2       | ±0.2nH    | 14        | 500                                  | 10.0                                | 16.0 | 0.08                          | 0.04 | 800                           | MLG0603P1N2CT000 |
| 1.3       | ±0.3nH    | 14        | 500                                  | 10.0                                | 13.9 | 0.08                          | 0.03 | 800                           | MLG0603P1N3ST000 |
| 1.3       | ±0.1nH    | 14        | 500                                  | 10.0                                | 13.9 | 0.08                          | 0.03 | 800                           | MLG0603P1N3BT000 |
| 1.3       | ±0.2nH    | 14        | 500                                  | 10.0                                | 13.9 | 0.08                          | 0.03 | 800                           | MLG0603P1N3CT000 |
| 1.4       | ±0.3nH    | 14        | 500                                  | 10.0                                | 11.7 | 0.09                          | 0.04 | 800                           | MLG0603P1N4ST000 |
| 1.4       | ±0.1nH    | 14        | 500                                  | 10.0                                | 11.7 | 0.09                          | 0.04 | 800                           | MLG0603P1N4BT000 |
| 1.4       | ±0.2nH    | 14        | 500                                  | 10.0                                | 11.7 | 0.09                          | 0.04 | 800                           | MLG0603P1N4CT000 |
| 1.5       | ±0.3nH    | 14        | 500                                  | 10.0                                | 14.9 | 0.10                          | 0.03 | 800                           | MLG0603P1N5ST000 |
| 1.5       | ±0.1nH    | 14        | 500                                  | 10.0                                | 14.9 | 0.10                          | 0.03 | 800                           | MLG0603P1N5BT000 |
| 1.5       | ±0.2nH    | 14        | 500                                  | 10.0                                | 14.9 | 0.10                          | 0.03 | 800                           | MLG0603P1N5CT000 |
| 1.6       | ±0.3nH    | 14        | 500                                  | 10.0                                | 13.4 | 0.10                          | 0.03 | 700                           | MLG0603P1N6ST000 |
| 1.6       | ±0.1nH    | 14        | 500                                  | 10.0                                | 13.4 | 0.10                          | 0.03 | 700                           | MLG0603P1N6BT000 |
| 1.6       | ±0.2nH    | 14        | 500                                  | 10.0                                | 13.4 | 0.10                          | 0.03 | 700                           | MLG0603P1N6CT000 |
| 1.7       | ±0.3nH    | 14        | 500                                  | 10.0                                | 12.8 | 0.10                          | 0.02 | 700                           | MLG0603P1N7ST000 |
| 1.7       | ±0.1nH    | 14        | 500                                  | 10.0                                | 12.8 | 0.10                          | 0.02 | 700                           | MLG0603P1N7BT000 |
| 1.7       | ±0.2nH    | 14        | 500                                  | 10.0                                | 12.8 | 0.10                          | 0.02 | 700                           | MLG0603P1N7CT000 |
| 1.8       | ±0.3nH    | 14        | 500                                  | 9.0                                 | 10.7 | 0.10                          | 0.03 | 700                           | MLG0603P1N8ST000 |
| 1.8       | ±0.1nH    | 14        | 500                                  | 9.0                                 | 10.7 | 0.10                          | 0.03 | 700                           | MLG0603P1N8BT000 |
| 1.8       | ±0.2nH    | 14        | 500                                  | 9.0                                 | 10.7 | 0.10                          | 0.03 | 700                           | MLG0603P1N8CT000 |
| 1.9       | ±0.3nH    | 14        | 500                                  | 9.0                                 | 10.9 | 0.10                          | 0.04 | 600                           | MLG0603P1N9ST000 |
| 1.9       | ±0.1nH    | 14        | 500                                  | 9.0                                 | 10.9 | 0.10                          | 0.04 | 600                           | MLG0603P1N9BT000 |
| 1.9       | ±0.2nH    | 14        | 500                                  | 9.0                                 | 10.9 | 0.10                          | 0.04 | 600                           | MLG0603P1N9CT000 |
| 2.0       | ±0.3nH    | 14        | 500                                  | 8.5                                 | 10.1 | 0.10                          | 0.03 | 600                           | MLG0603P2N0ST000 |
| 2.0       | ±0.1nH    | 14        | 500                                  | 8.5                                 | 10.1 | 0.10                          | 0.03 | 600                           | MLG0603P2N0BT000 |
| 2.0       | ±0.2nH    | 14        | 500                                  | 8.5                                 | 10.1 | 0.10                          | 0.03 | 600                           | MLG0603P2N0CT000 |
| 2.1       | ±0.3nH    | 14        | 500                                  | 8.0                                 | 9.8  | 0.10                          | 0.05 | 600                           | MLG0603P2N1ST000 |
| 2.1       | ±0.1nH    | 14        | 500                                  | 8.0                                 | 9.8  | 0.10                          | 0.05 | 600                           | MLG0603P2N1BT000 |
| 2.1       | ±0.2nH    | 14        | 500                                  | 8.0                                 | 9.8  | 0.10                          | 0.05 | 600                           | MLG0603P2N1CT000 |

\* Please contact us for information on inductance tolerance, G (±2%).

· Short bar residual inductance =0.43nH

## ○ Measurement equipment

| Measurement item        | Product No.  | Manufacturer         |
|-------------------------|--------------|----------------------|
| L, Q                    | 4291B+16197A | Agilent Technologies |
| Self-resonant frequency | 8720C        | Agilent Technologies |
| DC resistance           | Type-7561    | Yokogawa             |

\* Equivalent measurement equipment may be used.

MLG-P<sub>series</sub> **MLG0603P Type**

## ■ ELECTRICAL CHARACTERISTICS

## □ CHARACTERISTICS SPECIFICATION TABLE

| L<br>(nH) | Tolerance          | Q<br>min. | L, Q measuring<br>frequency<br>(MHz) | Self-resonant<br>frequency<br>(GHz) |      | DC resistance<br>( $\Omega$ ) |      | Rated current<br>(mA)<br>max. | Part No.*        |
|-----------|--------------------|-----------|--------------------------------------|-------------------------------------|------|-------------------------------|------|-------------------------------|------------------|
|           |                    |           |                                      | min.                                | typ. | max.                          | typ. |                               |                  |
| 2.2       | $\pm 0.3\text{nH}$ | 14        | 500                                  | 7.5                                 | 9.0  | 0.10                          | 0.07 | 600                           | MLG0603P2N2ST000 |
| 2.2       | $\pm 0.1\text{nH}$ | 14        | 500                                  | 7.5                                 | 9.0  | 0.10                          | 0.07 | 600                           | MLG0603P2N2BT000 |
| 2.2       | $\pm 0.2\text{nH}$ | 14        | 500                                  | 7.5                                 | 9.0  | 0.10                          | 0.07 | 600                           | MLG0603P2N2CT000 |
| 2.3       | $\pm 0.3\text{nH}$ | 14        | 500                                  | 7.5                                 | 8.4  | 0.20                          | 0.07 | 600                           | MLG0603P2N3ST000 |
| 2.3       | $\pm 0.1\text{nH}$ | 14        | 500                                  | 7.5                                 | 8.4  | 0.20                          | 0.07 | 600                           | MLG0603P2N3BT000 |
| 2.3       | $\pm 0.2\text{nH}$ | 14        | 500                                  | 7.5                                 | 8.4  | 0.20                          | 0.07 | 600                           | MLG0603P2N3CT000 |
| 2.4       | $\pm 0.3\text{nH}$ | 14        | 500                                  | 7.5                                 | 10.9 | 0.20                          | 0.12 | 500                           | MLG0603P2N4ST000 |
| 2.4       | $\pm 0.1\text{nH}$ | 14        | 500                                  | 7.5                                 | 10.9 | 0.20                          | 0.12 | 500                           | MLG0603P2N4BT000 |
| 2.4       | $\pm 0.2\text{nH}$ | 14        | 500                                  | 7.5                                 | 10.9 | 0.20                          | 0.12 | 500                           | MLG0603P2N4CT000 |
| 2.5       | $\pm 0.3\text{nH}$ | 14        | 500                                  | 7.5                                 | 9.9  | 0.20                          | 0.09 | 500                           | MLG0603P2N5ST000 |
| 2.5       | $\pm 0.1\text{nH}$ | 14        | 500                                  | 7.5                                 | 9.9  | 0.20                          | 0.09 | 500                           | MLG0603P2N5BT000 |
| 2.5       | $\pm 0.2\text{nH}$ | 14        | 500                                  | 7.5                                 | 9.9  | 0.20                          | 0.09 | 500                           | MLG0603P2N5CT000 |
| 2.6       | $\pm 0.3\text{nH}$ | 14        | 500                                  | 7.5                                 | 10.1 | 0.20                          | 0.14 | 500                           | MLG0603P2N6ST000 |
| 2.6       | $\pm 0.1\text{nH}$ | 14        | 500                                  | 7.5                                 | 10.1 | 0.20                          | 0.14 | 500                           | MLG0603P2N6BT000 |
| 2.6       | $\pm 0.2\text{nH}$ | 14        | 500                                  | 7.5                                 | 10.1 | 0.20                          | 0.14 | 500                           | MLG0603P2N6CT000 |
| 2.7       | $\pm 0.3\text{nH}$ | 14        | 500                                  | 7.5                                 | 10.0 | 0.20                          | 0.14 | 500                           | MLG0603P2N7ST000 |
| 2.7       | $\pm 0.1\text{nH}$ | 14        | 500                                  | 7.5                                 | 10.0 | 0.20                          | 0.14 | 500                           | MLG0603P2N7BT000 |
| 2.7       | $\pm 0.2\text{nH}$ | 14        | 500                                  | 7.5                                 | 10.0 | 0.20                          | 0.14 | 500                           | MLG0603P2N7CT000 |
| 2.8       | $\pm 0.3\text{nH}$ | 14        | 500                                  | 7.5                                 | 9.9  | 0.20                          | 0.10 | 500                           | MLG0603P2N8ST000 |
| 2.8       | $\pm 0.1\text{nH}$ | 14        | 500                                  | 7.5                                 | 9.9  | 0.20                          | 0.10 | 500                           | MLG0603P2N8BT000 |
| 2.8       | $\pm 0.2\text{nH}$ | 14        | 500                                  | 7.5                                 | 9.9  | 0.20                          | 0.10 | 500                           | MLG0603P2N8CT000 |
| 2.9       | $\pm 0.3\text{nH}$ | 14        | 500                                  | 7.5                                 | 9.2  | 0.20                          | 0.10 | 500                           | MLG0603P2N9ST000 |
| 2.9       | $\pm 0.1\text{nH}$ | 14        | 500                                  | 7.5                                 | 9.2  | 0.20                          | 0.10 | 500                           | MLG0603P2N9BT000 |
| 2.9       | $\pm 0.2\text{nH}$ | 14        | 500                                  | 7.5                                 | 9.2  | 0.20                          | 0.10 | 500                           | MLG0603P2N9CT000 |
| 3.0       | $\pm 0.3\text{nH}$ | 14        | 500                                  | 7.5                                 | 9.1  | 0.20                          | 0.14 | 450                           | MLG0603P3N0ST000 |
| 3.0       | $\pm 0.1\text{nH}$ | 14        | 500                                  | 7.5                                 | 9.1  | 0.20                          | 0.14 | 450                           | MLG0603P3N0BT000 |
| 3.0       | $\pm 0.2\text{nH}$ | 14        | 500                                  | 7.5                                 | 9.1  | 0.20                          | 0.14 | 450                           | MLG0603P3N0CT000 |
| 3.1       | $\pm 0.3\text{nH}$ | 14        | 500                                  | 7.5                                 | 8.8  | 0.20                          | 0.10 | 450                           | MLG0603P3N1ST000 |
| 3.1       | $\pm 0.1\text{nH}$ | 14        | 500                                  | 7.5                                 | 8.8  | 0.20                          | 0.10 | 450                           | MLG0603P3N1BT000 |
| 3.1       | $\pm 0.2\text{nH}$ | 14        | 500                                  | 7.5                                 | 8.8  | 0.20                          | 0.10 | 450                           | MLG0603P3N1CT000 |
| 3.2       | $\pm 0.3\text{nH}$ | 14        | 500                                  | 7.5                                 | 8.4  | 0.20                          | 0.14 | 450                           | MLG0603P3N2ST000 |
| 3.2       | $\pm 0.1\text{nH}$ | 14        | 500                                  | 7.5                                 | 8.4  | 0.20                          | 0.14 | 450                           | MLG0603P3N2BT000 |
| 3.2       | $\pm 0.2\text{nH}$ | 14        | 500                                  | 7.5                                 | 8.4  | 0.20                          | 0.14 | 450                           | MLG0603P3N2CT000 |
| 3.3       | $\pm 0.3\text{nH}$ | 14        | 500                                  | 7.5                                 | 8.4  | 0.20                          | 0.13 | 450                           | MLG0603P3N3ST000 |
| 3.3       | $\pm 0.1\text{nH}$ | 14        | 500                                  | 7.5                                 | 8.4  | 0.20                          | 0.13 | 450                           | MLG0603P3N3BT000 |
| 3.3       | $\pm 0.2\text{nH}$ | 14        | 500                                  | 7.5                                 | 8.4  | 0.20                          | 0.13 | 450                           | MLG0603P3N3CT000 |
| 3.4       | $\pm 0.3\text{nH}$ | 14        | 500                                  | 7.0                                 | 8.1  | 0.20                          | 0.13 | 450                           | MLG0603P3N4ST000 |
| 3.4       | $\pm 0.1\text{nH}$ | 14        | 500                                  | 7.0                                 | 8.1  | 0.20                          | 0.13 | 450                           | MLG0603P3N4BT000 |
| 3.4       | $\pm 0.2\text{nH}$ | 14        | 500                                  | 7.0                                 | 8.1  | 0.20                          | 0.13 | 450                           | MLG0603P3N4CT000 |
| 3.5       | $\pm 0.3\text{nH}$ | 14        | 500                                  | 6.5                                 | 8.0  | 0.20                          | 0.12 | 450                           | MLG0603P3N5ST000 |
| 3.5       | $\pm 0.1\text{nH}$ | 14        | 500                                  | 6.5                                 | 8.0  | 0.20                          | 0.12 | 450                           | MLG0603P3N5BT000 |
| 3.5       | $\pm 0.2\text{nH}$ | 14        | 500                                  | 6.5                                 | 8.0  | 0.20                          | 0.12 | 450                           | MLG0603P3N5CT000 |
| 3.6       | $\pm 0.3\text{nH}$ | 14        | 500                                  | 6.5                                 | 7.7  | 0.20                          | 0.10 | 400                           | MLG0603P3N6ST000 |
| 3.6       | $\pm 0.1\text{nH}$ | 14        | 500                                  | 6.5                                 | 7.7  | 0.20                          | 0.10 | 400                           | MLG0603P3N6BT000 |
| 3.6       | $\pm 0.2\text{nH}$ | 14        | 500                                  | 6.5                                 | 7.7  | 0.20                          | 0.10 | 400                           | MLG0603P3N6CT000 |

\* Please contact us for information on inductance tolerance, G ( $\pm 2\%$ ).

• Short bar residual inductance = 0.43nH

## ○ Measurement equipment

| Measurement item        | Product No.  | Manufacturer         |
|-------------------------|--------------|----------------------|
| L, Q                    | 4291B+16197A | Agilent Technologies |
| Self-resonant frequency | 8720C        | Agilent Technologies |
| DC resistance           | Type-7561    | Yokogawa             |

\* Equivalent measurement equipment may be used.

MLG-P<sub>series</sub> **MLG0603P Type**

## ■ ELECTRICAL CHARACTERISTICS

## □ CHARACTERISTICS SPECIFICATION TABLE

| L<br>(nH) | Tolerance | Q<br>min. | L, Q measuring<br>frequency<br>(MHz) | Self-resonant<br>frequency<br>(GHz) |      | DC resistance<br>(Ω) |      | Rated current<br>(mA)<br>max. | Part No.*        |
|-----------|-----------|-----------|--------------------------------------|-------------------------------------|------|----------------------|------|-------------------------------|------------------|
|           |           |           |                                      | min.                                | typ. | max.                 | typ. |                               |                  |
| 3.7       | ±0.3nH    | 14        | 500                                  | 6.5                                 | 7.4  | 0.20                 | 0.14 | 400                           | MLG0603P3N7ST000 |
| 3.7       | ±0.1nH    | 14        | 500                                  | 6.5                                 | 7.4  | 0.20                 | 0.14 | 400                           | MLG0603P3N7BT000 |
| 3.7       | ±0.2nH    | 14        | 500                                  | 6.5                                 | 7.4  | 0.20                 | 0.14 | 400                           | MLG0603P3N7CT000 |
| 3.8       | ±0.3nH    | 14        | 500                                  | 5.8                                 | 7.0  | 0.30                 | 0.24 | 400                           | MLG0603P3N8ST000 |
| 3.8       | ±0.1nH    | 14        | 500                                  | 5.8                                 | 7.0  | 0.30                 | 0.24 | 400                           | MLG0603P3N8BT000 |
| 3.8       | ±0.2nH    | 14        | 500                                  | 5.8                                 | 7.0  | 0.30                 | 0.24 | 400                           | MLG0603P3N8CT000 |
| 3.9       | ±0.3nH    | 14        | 500                                  | 5.8                                 | 7.1  | 0.30                 | 0.22 | 400                           | MLG0603P3N9ST000 |
| 3.9       | ±0.1nH    | 14        | 500                                  | 5.8                                 | 7.1  | 0.30                 | 0.22 | 400                           | MLG0603P3N9BT000 |
| 3.9       | ±0.2nH    | 14        | 500                                  | 5.8                                 | 7.1  | 0.30                 | 0.22 | 400                           | MLG0603P3N9CT000 |
| 4.0       | ±0.3nH    | 14        | 500                                  | 5.8                                 | 6.7  | 0.40                 | 0.21 | 350                           | MLG0603P4N0ST000 |
| 4.0       | ±0.1nH    | 14        | 500                                  | 5.8                                 | 6.7  | 0.40                 | 0.21 | 350                           | MLG0603P4N0BT000 |
| 4.0       | ±0.2nH    | 14        | 500                                  | 5.8                                 | 6.7  | 0.40                 | 0.21 | 350                           | MLG0603P4N0CT000 |
| 4.1       | ±0.3nH    | 14        | 500                                  | 5.8                                 | 6.7  | 0.40                 | 0.29 | 350                           | MLG0603P4N1ST000 |
| 4.1       | ±0.1nH    | 14        | 500                                  | 5.8                                 | 6.7  | 0.40                 | 0.29 | 350                           | MLG0603P4N1BT000 |
| 4.1       | ±0.2nH    | 14        | 500                                  | 5.8                                 | 6.7  | 0.40                 | 0.29 | 350                           | MLG0603P4N1CT000 |
| 4.2       | ±0.3nH    | 14        | 500                                  | 5.8                                 | 6.6  | 0.40                 | 0.24 | 350                           | MLG0603P4N2ST000 |
| 4.2       | ±0.1nH    | 14        | 500                                  | 5.8                                 | 6.6  | 0.40                 | 0.24 | 350                           | MLG0603P4N2BT000 |
| 4.2       | ±0.2nH    | 14        | 500                                  | 5.8                                 | 6.6  | 0.40                 | 0.24 | 350                           | MLG0603P4N2CT000 |
| 4.3       | ±0.3nH    | 14        | 500                                  | 5.8                                 | 6.7  | 0.40                 | 0.24 | 350                           | MLG0603P4N3ST000 |
| 4.3       | ±3%       | 14        | 500                                  | 5.8                                 | 6.7  | 0.40                 | 0.24 | 350                           | MLG0603P4N3HT000 |
| 4.3       | ±5%       | 14        | 500                                  | 5.8                                 | 6.7  | 0.40                 | 0.24 | 350                           | MLG0603P4N3JT000 |
| 4.7       | ±0.3nH    | 14        | 500                                  | 5.5                                 | 6.9  | 0.40                 | 0.16 | 350                           | MLG0603P4N7ST000 |
| 4.7       | ±3%       | 14        | 500                                  | 5.5                                 | 6.9  | 0.40                 | 0.16 | 350                           | MLG0603P4N7HT000 |
| 4.7       | ±5%       | 14        | 500                                  | 5.5                                 | 6.9  | 0.40                 | 0.16 | 350                           | MLG0603P4N7JT000 |
| 5.1       | ±0.3nH    | 14        | 500                                  | 5.5                                 | 6.6  | 0.40                 | 0.30 | 350                           | MLG0603P5N1ST000 |
| 5.1       | ±3%       | 14        | 500                                  | 5.5                                 | 6.6  | 0.40                 | 0.30 | 350                           | MLG0603P5N1HT000 |
| 5.1       | ±5%       | 14        | 500                                  | 5.5                                 | 6.6  | 0.40                 | 0.30 | 350                           | MLG0603P5N1JT000 |
| 5.6       | ±0.3nH    | 14        | 500                                  | 4.0                                 | 5.3  | 0.40                 | 0.32 | 350                           | MLG0603P5N6ST000 |
| 5.6       | ±3%       | 14        | 500                                  | 4.0                                 | 5.3  | 0.40                 | 0.32 | 350                           | MLG0603P5N6HT000 |
| 5.6       | ±5%       | 14        | 500                                  | 4.0                                 | 5.3  | 0.40                 | 0.32 | 350                           | MLG0603P5N6JT000 |
| 6.2       | ±0.3nH    | 14        | 500                                  | 4.0                                 | 6.3  | 0.70                 | 0.59 | 300                           | MLG0603P6N2ST000 |
| 6.2       | ±3%       | 14        | 500                                  | 4.0                                 | 6.3  | 0.70                 | 0.59 | 300                           | MLG0603P6N2HT000 |
| 6.2       | ±5%       | 14        | 500                                  | 4.0                                 | 6.3  | 0.70                 | 0.59 | 300                           | MLG0603P6N2JT000 |
| 6.8       | ±3%       | 14        | 500                                  | 4.0                                 | 6.1  | 0.75                 | 0.62 | 300                           | MLG0603P6N8HT000 |
| 6.8       | ±5%       | 14        | 500                                  | 4.0                                 | 6.1  | 0.75                 | 0.62 | 300                           | MLG0603P6N8JT000 |
| 7.5       | ±3%       | 14        | 500                                  | 4.0                                 | 5.4  | 0.80                 | 0.70 | 300                           | MLG0603P7N5HT000 |
| 7.5       | ±5%       | 14        | 500                                  | 4.0                                 | 5.4  | 0.80                 | 0.70 | 300                           | MLG0603P7N5JT000 |
| 8.2       | ±3%       | 14        | 500                                  | 4.0                                 | 5.2  | 0.85                 | 0.71 | 250                           | MLG0603P8N2HT000 |
| 8.2       | ±5%       | 14        | 500                                  | 4.0                                 | 5.2  | 0.85                 | 0.71 | 250                           | MLG0603P8N2JT000 |
| 9.1       | ±3%       | 14        | 500                                  | 4.0                                 | 5.0  | 0.90                 | 0.76 | 250                           | MLG0603P9N1HT000 |
| 9.1       | ±5%       | 14        | 500                                  | 4.0                                 | 5.0  | 0.90                 | 0.76 | 250                           | MLG0603P9N1JT000 |
| 10.0      | ±3%       | 14        | 500                                  | 4.0                                 | 4.7  | 0.95                 | 0.85 | 250                           | MLG0603P10NHT000 |
| 10.0      | ±5%       | 14        | 500                                  | 4.0                                 | 4.7  | 0.95                 | 0.85 | 250                           | MLG0603P10NJT000 |
| 11.0      | ±3%       | 14        | 500                                  | 3.5                                 | 4.5  | 1.00                 | 0.64 | 250                           | MLG0603P11NHT000 |
| 11.0      | ±5%       | 14        | 500                                  | 3.5                                 | 4.5  | 1.00                 | 0.64 | 250                           | MLG0603P11NJT000 |

\* Please contact us for information on inductance tolerance, G (±2%).

• Short bar residual inductance =0.43nH

## ○ Measurement equipment

| Measurement item        | Product No.  | Manufacturer         |
|-------------------------|--------------|----------------------|
| L, Q                    | 4291B+16197A | Agilent Technologies |
| Self-resonant frequency | 8720C        | Agilent Technologies |
| DC resistance           | Type-7561    | Yokogawa             |

\* Equivalent measurement equipment may be used.

MLG-P<sub>series</sub> **MLG0603P Type**

## ■ ELECTRICAL CHARACTERISTICS

## □ CHARACTERISTICS SPECIFICATION TABLE

| L<br>(nH) | Tolerance | Q<br>min. | L, Q measuring<br>frequency<br>(MHz) | Self-resonant<br>frequency<br>(GHz) |      | DC resistance<br>(Ω) |      | Rated current<br>(mA)<br>max. | Part No.*        |
|-----------|-----------|-----------|--------------------------------------|-------------------------------------|------|----------------------|------|-------------------------------|------------------|
|           |           |           |                                      | min.                                | typ. | max.                 | typ. |                               |                  |
| 12.0      | ±3%       | 14        | 500                                  | 3.5                                 | 4.3  | 1.10                 | 0.82 | 250                           | MLG0603P12NHT000 |
| 12.0      | ±5%       | 14        | 500                                  | 3.5                                 | 4.3  | 1.10                 | 0.82 | 250                           | MLG0603P12NJT000 |
| 13.0      | ±3%       | 14        | 500                                  | 3.2                                 | 4.2  | 1.10                 | 0.87 | 250                           | MLG0603P13NHT000 |
| 13.0      | ±5%       | 14        | 500                                  | 3.2                                 | 4.2  | 1.10                 | 0.87 | 250                           | MLG0603P13NJT000 |
| 15.0      | ±3%       | 14        | 500                                  | 3.2                                 | 3.7  | 1.20                 | 0.94 | 250                           | MLG0603P15NHT000 |
| 15.0      | ±5%       | 14        | 500                                  | 3.2                                 | 3.7  | 1.20                 | 0.94 | 250                           | MLG0603P15NJT000 |
| 16.0      | ±3%       | 14        | 500                                  | 3.0                                 | 3.6  | 1.20                 | 1.00 | 200                           | MLG0603P16NHT000 |
| 16.0      | ±5%       | 14        | 500                                  | 3.0                                 | 3.6  | 1.20                 | 1.00 | 200                           | MLG0603P16NJT000 |
| 18.0      | ±3%       | 14        | 500                                  | 3.0                                 | 3.5  | 1.40                 | 1.04 | 200                           | MLG0603P18NHT000 |
| 18.0      | ±5%       | 14        | 500                                  | 3.0                                 | 3.5  | 1.40                 | 1.04 | 200                           | MLG0603P18NJT000 |
| 20.0      | ±3%       | 14        | 500                                  | 2.2                                 | 3.3  | 1.90                 | 1.33 | 150                           | MLG0603P20NHT000 |
| 20.0      | ±5%       | 14        | 500                                  | 2.2                                 | 3.3  | 1.90                 | 1.33 | 150                           | MLG0603P20NJT000 |
| 22.0      | ±3%       | 14        | 500                                  | 2.2                                 | 2.9  | 1.90                 | 1.31 | 150                           | MLG0603P22NHT000 |
| 22.0      | ±5%       | 14        | 500                                  | 2.2                                 | 2.9  | 1.90                 | 1.31 | 150                           | MLG0603P22NJT000 |
| 24.0      | ±3%       | 14        | 500                                  | 2.2                                 | 2.9  | 2.10                 | 1.17 | 140                           | MLG0603P24NHT000 |
| 24.0      | ±5%       | 14        | 500                                  | 2.2                                 | 2.9  | 2.10                 | 1.17 | 140                           | MLG0603P24NJT000 |
| 27.0      | ±3%       | 14        | 500                                  | 2.2                                 | 2.7  | 2.10                 | 1.45 | 140                           | MLG0603P27NHT000 |
| 27.0      | ±5%       | 14        | 500                                  | 2.2                                 | 2.7  | 2.10                 | 1.45 | 140                           | MLG0603P27NJT000 |
| 30.0      | ±3%       | 10        | 300                                  | 1.8                                 | 2.3  | 2.20                 | 1.37 | 130                           | MLG0603P30NHT000 |
| 30.0      | ±5%       | 10        | 300                                  | 1.8                                 | 2.3  | 2.20                 | 1.37 | 130                           | MLG0603P30NJT000 |
| 33.0      | ±3%       | 10        | 300                                  | 1.8                                 | 2.4  | 2.20                 | 1.55 | 130                           | MLG0603P33NHT000 |
| 33.0      | ±5%       | 10        | 300                                  | 1.8                                 | 2.4  | 2.20                 | 1.55 | 130                           | MLG0603P33NJT000 |
| 36.0      | ±3%       | 10        | 300                                  | 1.8                                 | 2.2  | 2.40                 | 1.49 | 120                           | MLG0603P36NHT000 |
| 36.0      | ±5%       | 10        | 300                                  | 1.8                                 | 2.2  | 2.40                 | 1.49 | 120                           | MLG0603P36NJT000 |
| 39.0      | ±3%       | 10        | 300                                  | 1.8                                 | 2.2  | 2.40                 | 1.72 | 120                           | MLG0603P39NHT000 |
| 39.0      | ±5%       | 10        | 300                                  | 1.8                                 | 2.2  | 2.40                 | 1.72 | 120                           | MLG0603P39NJT000 |
| 43.0      | ±3%       | 10        | 300                                  | 1.6                                 | 2.0  | 2.90                 | 1.61 | 110                           | MLG0603P43NHT000 |
| 43.0      | ±5%       | 10        | 300                                  | 1.6                                 | 2.0  | 2.90                 | 1.61 | 110                           | MLG0603P43NJT000 |
| 47.0      | ±3%       | 10        | 300                                  | 1.6                                 | 2.0  | 2.90                 | 2.18 | 110                           | MLG0603P47NHT000 |
| 47.0      | ±5%       | 10        | 300                                  | 1.6                                 | 2.0  | 2.90                 | 2.18 | 110                           | MLG0603P47NJT000 |
| 51.0      | ±3%       | 10        | 300                                  | 1.4                                 | 1.9  | 3.50                 | 1.87 | 100                           | MLG0603P51NHT000 |
| 51.0      | ±5%       | 10        | 300                                  | 1.4                                 | 1.9  | 3.50                 | 1.87 | 100                           | MLG0603P51NJT000 |
| 56.0      | ±3%       | 10        | 300                                  | 1.4                                 | 1.8  | 3.50                 | 2.35 | 100                           | MLG0603P56NHT000 |
| 56.0      | ±5%       | 10        | 300                                  | 1.4                                 | 1.8  | 3.50                 | 2.35 | 100                           | MLG0603P56NJT000 |
| 62.0      | ±3%       | 10        | 300                                  | 1.2                                 | 1.6  | 3.50                 | 2.12 | 100                           | MLG0603P62NHT000 |
| 62.0      | ±5%       | 10        | 300                                  | 1.2                                 | 1.6  | 3.50                 | 2.12 | 100                           | MLG0603P62NJT000 |
| 68.0      | ±3%       | 9         | 300                                  | 1.2                                 | 1.6  | 3.50                 | 2.69 | 100                           | MLG0603P68NHT000 |
| 68.0      | ±5%       | 9         | 300                                  | 1.2                                 | 1.6  | 3.50                 | 2.69 | 100                           | MLG0603P68NJT000 |
| 75.0      | ±3%       | 9         | 300                                  | 1.0                                 | 1.5  | 4.00                 | 2.59 | 80                            | MLG0603P75NHT000 |
| 75.0      | ±5%       | 9         | 300                                  | 1.0                                 | 1.5  | 4.00                 | 2.59 | 80                            | MLG0603P75NJT000 |
| 82.0      | ±3%       | 9         | 300                                  | 1.0                                 | 1.5  | 4.00                 | 2.71 | 80                            | MLG0603P82NHT000 |
| 82.0      | ±5%       | 9         | 300                                  | 1.0                                 | 1.5  | 4.00                 | 2.71 | 80                            | MLG0603P82NJT000 |
| 91.0      | ±3%       | 9         | 300                                  | 0.9                                 | 1.3  | 4.50                 | 2.92 | 80                            | MLG0603P91NHT000 |
| 91.0      | ±5%       | 9         | 300                                  | 0.9                                 | 1.3  | 4.50                 | 2.92 | 80                            | MLG0603P91NJT000 |

\* Please contact us for information on inductance tolerance, G (±2%).

· Short bar residual inductance =0.43nH

## ○ Measurement equipment

| Measurement item        | Product No.  | Manufacturer         |
|-------------------------|--------------|----------------------|
| L, Q                    | 4291B+16197A | Agilent Technologies |
| Self-resonant frequency | 8720C        | Agilent Technologies |
| DC resistance           | Type-7561    | Yokogawa             |

\* Equivalent measurement equipment may be used.

• All specifications are subject to change without notice.

MLG-P<sub>series</sub> **MLG0603P Type**

## ■ ELECTRICAL CHARACTERISTICS

## □ CHARACTERISTICS SPECIFICATION TABLE

| L<br>(nH) | Tolerance | Q<br>min. | L, Q measuring<br>frequency<br>(MHz) | Self-resonant<br>frequency<br>(GHz) |      | DC resistance<br>( $\Omega$ ) |      | Rated current<br>(mA)<br>max. | Part No.*        |
|-----------|-----------|-----------|--------------------------------------|-------------------------------------|------|-------------------------------|------|-------------------------------|------------------|
|           |           |           |                                      | min.                                | typ. | max.                          | typ. |                               |                  |
| 100.0     | ±3%       | 9         | 300                                  | 0.9                                 | 1.3  | 4.50                          | 3.20 | 80                            | MLG0603PR10HT000 |
| 100.0     | ±5%       | 9         | 300                                  | 0.9                                 | 1.3  | 4.50                          | 3.20 | 80                            | MLG0603PR10JT000 |
| 110.0     | ±3%       | 9         | 300                                  | 0.8                                 | 1.1  | 5.00                          | 3.50 | 80                            | MLG0603PR11HT000 |
| 110.0     | ±5%       | 9         | 300                                  | 0.8                                 | 1.1  | 5.00                          | 3.50 | 80                            | MLG0603PR11JT000 |
| 120.0     | ±3%       | 9         | 300                                  | 0.8                                 | 1.0  | 5.00                          | 3.79 | 80                            | MLG0603PR12HT000 |
| 120.0     | ±5%       | 9         | 300                                  | 0.8                                 | 1.0  | 5.00                          | 3.79 | 80                            | MLG0603PR12JT000 |

\* Please contact us for information on inductance tolerance, G ( $\pm 2\%$ ).

• Short bar residual inductance =0.43nH

## ○ Measurement equipment

| Measurement item        | Product No.  | Manufacturer         |
|-------------------------|--------------|----------------------|
| L, Q                    | 4291B+16197A | Agilent Technologies |
| Self-resonant frequency | 8720C        | Agilent Technologies |
| DC resistance           | Type-7561    | Yokogawa             |

\* Equivalent measurement equipment may be used.

MLG-P<sub>series</sub> **MLG0603P Type**

## ■ ELECTRICAL CHARACTERISTICS

## □ L, Q FREQUENCY CHARACTERISTICS TABLE

| L(nH)typ. |        |        |        |        | Q typ. |        |        |        |        | Part No.*        |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------------------|
| 500MHz    | 800MHz | 1.8GHz | 2.0GHz | 2.4GHz | 500MHz | 800MHz | 1.8GHz | 2.0GHz | 2.4GHz |                  |
| 0.6       | 0.6    | 0.6    | 0.6    | 0.6    | 16min. | 22min. | 35min. | 37min. | 41min. | MLG0603P0N6BT000 |
| 0.6       | 0.6    | 0.6    | 0.6    | 0.6    | 16min. | 22min. | 35min. | 37min. | 41min. | MLG0603P0N6CT000 |
| 0.7       | 0.7    | 0.7    | 0.7    | 0.7    | 16min. | 22min. | 35min. | 37min. | 41min. | MLG0603P0N7BT000 |
| 0.7       | 0.7    | 0.7    | 0.7    | 0.7    | 16min. | 22min. | 35min. | 37min. | 41min. | MLG0603P0N7CT000 |
| 0.8       | 0.8    | 0.8    | 0.8    | 0.4    | 16     | 22     | 35     | 37     | 41     | MLG0603P0N8BT000 |
| 0.8       | 0.8    | 0.8    | 0.8    | 0.4    | 16     | 22     | 35     | 37     | 41     | MLG0603P0N8CT000 |
| 0.9       | 0.9    | 0.9    | 0.9    | 0.9    | 17     | 22     | 35     | 37     | 41     | MLG0603P0N9BT000 |
| 0.9       | 0.9    | 0.9    | 0.9    | 0.9    | 17     | 22     | 35     | 37     | 41     | MLG0603P0N9CT000 |
| 1.0       | 1.0    | 1.0    | 1.0    | 1.0    | 16     | 21     | 33     | 36     | 40     | MLG0603P1N0BT000 |
| 1.0       | 1.0    | 1.0    | 1.0    | 1.0    | 16     | 21     | 33     | 36     | 40     | MLG0603P1N0CT000 |
| 1.0       | 1.0    | 1.0    | 1.0    | 1.0    | 16     | 21     | 33     | 36     | 40     | MLG0603P1N0ST000 |
| 1.1       | 1.1    | 1.1    | 1.1    | 1.1    | 17     | 23     | 36     | 38     | 43     | MLG0603P1N1BT000 |
| 1.1       | 1.1    | 1.1    | 1.1    | 1.1    | 17     | 23     | 36     | 38     | 43     | MLG0603P1N1CT000 |
| 1.1       | 1.1    | 1.1    | 1.1    | 1.1    | 17     | 23     | 36     | 38     | 43     | MLG0603P1N1ST000 |
| 1.2       | 1.2    | 1.2    | 1.2    | 1.2    | 18     | 24     | 38     | 40     | 45     | MLG0603P1N2BT000 |
| 1.2       | 1.2    | 1.2    | 1.2    | 1.2    | 18     | 24     | 38     | 40     | 45     | MLG0603P1N2CT000 |
| 1.2       | 1.2    | 1.2    | 1.2    | 1.2    | 18     | 24     | 38     | 40     | 45     | MLG0603P1N2ST000 |
| 1.3       | 1.3    | 1.3    | 1.3    | 1.3    | 17     | 22     | 34     | 36     | 40     | MLG0603P1N3BT000 |
| 1.3       | 1.3    | 1.3    | 1.3    | 1.3    | 17     | 22     | 34     | 36     | 40     | MLG0603P1N3CT000 |
| 1.3       | 1.3    | 1.3    | 1.3    | 1.3    | 17     | 22     | 34     | 36     | 40     | MLG0603P1N3ST000 |
| 1.4       | 1.4    | 1.4    | 1.4    | 1.4    | 18     | 23     | 36     | 39     | 43     | MLG0603P1N4BT000 |
| 1.4       | 1.4    | 1.4    | 1.4    | 1.4    | 18     | 23     | 36     | 39     | 43     | MLG0603P1N4CT000 |
| 1.4       | 1.4    | 1.4    | 1.4    | 1.4    | 18     | 23     | 36     | 39     | 43     | MLG0603P1N4ST000 |
| 1.5       | 1.5    | 1.5    | 1.5    | 1.5    | 17     | 22     | 33     | 35     | 39     | MLG0603P1N5BT000 |
| 1.5       | 1.5    | 1.5    | 1.5    | 1.5    | 17     | 22     | 33     | 35     | 39     | MLG0603P1N5CT000 |
| 1.5       | 1.5    | 1.5    | 1.5    | 1.5    | 17     | 22     | 33     | 35     | 39     | MLG0603P1N5ST000 |
| 1.6       | 1.6    | 1.6    | 1.6    | 1.6    | 17     | 22     | 33     | 35     | 38     | MLG0603P1N6BT000 |
| 1.6       | 1.6    | 1.6    | 1.6    | 1.6    | 17     | 22     | 33     | 35     | 38     | MLG0603P1N6CT000 |
| 1.6       | 1.6    | 1.6    | 1.6    | 1.6    | 17     | 22     | 33     | 35     | 38     | MLG0603P1N6ST000 |
| 1.7       | 1.7    | 1.7    | 1.7    | 1.7    | 17     | 22     | 33     | 35     | 39     | MLG0603P1N7BT000 |
| 1.7       | 1.7    | 1.7    | 1.7    | 1.7    | 17     | 22     | 33     | 35     | 39     | MLG0603P1N7CT000 |
| 1.7       | 1.7    | 1.7    | 1.7    | 1.7    | 17     | 22     | 33     | 35     | 39     | MLG0603P1N7ST000 |
| 1.8       | 1.8    | 1.8    | 1.8    | 1.8    | 17     | 22     | 34     | 35     | 39     | MLG0603P1N8BT000 |
| 1.8       | 1.8    | 1.8    | 1.8    | 1.8    | 17     | 22     | 34     | 35     | 39     | MLG0603P1N8CT000 |
| 1.8       | 1.8    | 1.8    | 1.8    | 1.8    | 17     | 22     | 34     | 35     | 39     | MLG0603P1N8ST000 |
| 1.9       | 1.9    | 1.9    | 1.9    | 1.9    | 18     | 24     | 36     | 38     | 42     | MLG0603P1N9BT000 |
| 1.9       | 1.9    | 1.9    | 1.9    | 1.9    | 18     | 24     | 36     | 38     | 42     | MLG0603P1N9CT000 |
| 1.9       | 1.9    | 1.9    | 1.9    | 1.9    | 18     | 24     | 36     | 38     | 42     | MLG0603P1N9ST000 |
| 2.0       | 2      | 2.0    | 2.0    | 2.0    | 19     | 23     | 35     | 37     | 41     | MLG0603P2N0BT000 |
| 2.0       | 2      | 2.0    | 2.0    | 2.0    | 19     | 23     | 35     | 37     | 41     | MLG0603P2N0CT000 |
| 2.0       | 2      | 2.0    | 2.0    | 2.0    | 19     | 23     | 35     | 37     | 41     | MLG0603P2N0ST000 |
| 2.1       | 2.1    | 2.1    | 2.1    | 2.1    | 18     | 23     | 34     | 36     | 39     | MLG0603P2N1BT000 |
| 2.1       | 2.1    | 2.1    | 2.1    | 2.1    | 18     | 23     | 34     | 36     | 39     | MLG0603P2N1CT000 |
| 2.1       | 2.1    | 2.1    | 2.1    | 2.1    | 18     | 23     | 34     | 36     | 39     | MLG0603P2N1ST000 |
| 2.2       | 2.2    | 2.2    | 2.2    | 2.3    | 18     | 23     | 35     | 36     | 40     | MLG0603P2N2BT000 |
| 2.2       | 2.2    | 2.2    | 2.2    | 2.3    | 18     | 23     | 35     | 36     | 40     | MLG0603P2N2CT000 |
| 2.2       | 2.2    | 2.2    | 2.2    | 2.3    | 18     | 23     | 35     | 36     | 40     | MLG0603P2N2ST000 |
| 2.3       | 2.3    | 2.3    | 2.4    | 2.4    | 18     | 22     | 33     | 35     | 38     | MLG0603P2N3BT000 |
| 2.3       | 2.3    | 2.3    | 2.4    | 2.4    | 18     | 22     | 33     | 35     | 38     | MLG0603P2N3CT000 |
| 2.3       | 2.3    | 2.3    | 2.4    | 2.4    | 18     | 22     | 33     | 35     | 38     | MLG0603P2N3ST000 |

\* Please contact us for information on inductance tolerance, G ( $\pm 2\%$ ).

## ○ Measurement equipment

| Product No.  | Manufacturer         |
|--------------|----------------------|
| 4291B+16197A | Agilent Technologies |

\* Equivalent measurement equipment may be used.

• All specifications are subject to change without notice.

MLG-P<sub>series</sub> **MLG0603P Type**

## ■ ELECTRICAL CHARACTERISTICS

## □ L, Q FREQUENCY CHARACTERISTICS TABLE

| L(nH)typ. |        |        |        |        | Q typ. |        |        |        |        | Part No.*        |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------------------|
| 500MHz    | 800MHz | 1.8GHz | 2.0GHz | 2.4GHz | 500MHz | 800MHz | 1.8GHz | 2.0GHz | 2.4GHz |                  |
| 2.4       | 2.4    | 2.4    | 2.4    | 2.4    | 16     | 21     | 31     | 33     | 36     | MLG0603P2N4CT000 |
| 2.4       | 2.4    | 2.4    | 2.4    | 2.4    | 16     | 21     | 31     | 33     | 36     | MLG0603P2N4ST000 |
| 2.5       | 2.5    | 2.5    | 2.5    | 2.5    | 17     | 22     | 33     | 34     | 38     | MLG0603P2N5BT000 |
| 2.5       | 2.5    | 2.5    | 2.5    | 2.5    | 17     | 22     | 33     | 34     | 38     | MLG0603P2N5CT000 |
| 2.5       | 2.5    | 2.5    | 2.5    | 2.5    | 17     | 22     | 33     | 34     | 38     | MLG0603P2N5ST000 |
| 2.6       | 2.6    | 2.6    | 2.6    | 2.6    | 17     | 22     | 33     | 35     | 38     | MLG0603P2N6BT000 |
| 2.6       | 2.6    | 2.6    | 2.6    | 2.6    | 17     | 22     | 33     | 35     | 38     | MLG0603P2N6CT000 |
| 2.6       | 2.6    | 2.6    | 2.6    | 2.6    | 17     | 22     | 33     | 35     | 38     | MLG0603P2N6ST000 |
| 2.7       | 2.7    | 2.7    | 2.7    | 2.7    | 17     | 21     | 33     | 35     | 38     | MLG0603P2N7BT000 |
| 2.7       | 2.7    | 2.7    | 2.7    | 2.7    | 17     | 21     | 33     | 35     | 38     | MLG0603P2N7CT000 |
| 2.7       | 2.7    | 2.7    | 2.7    | 2.7    | 17     | 21     | 33     | 35     | 38     | MLG0603P2N7ST000 |
| 2.8       | 2.8    | 2.8    | 2.8    | 2.9    | 17     | 22     | 34     | 36     | 40     | MLG0603P2N8BT000 |
| 2.8       | 2.8    | 2.8    | 2.8    | 2.9    | 17     | 22     | 34     | 36     | 40     | MLG0603P2N8CT000 |
| 2.8       | 2.8    | 2.8    | 2.8    | 2.9    | 17     | 22     | 34     | 36     | 40     | MLG0603P2N8ST000 |
| 2.9       | 2.9    | 2.9    | 2.9    | 3.0    | 17     | 22     | 34     | 35     | 39     | MLG0603P2N9BT000 |
| 2.9       | 2.9    | 2.9    | 2.9    | 3.0    | 17     | 22     | 34     | 35     | 39     | MLG0603P2N9CT000 |
| 2.9       | 2.9    | 2.9    | 2.9    | 3.0    | 17     | 22     | 34     | 35     | 39     | MLG0603P2N9ST000 |
| 3.0       | 3      | 3.0    | 3.1    | 3.1    | 17     | 21     | 32     | 34     | 37     | MLG0603P3N0BT000 |
| 3.0       | 3      | 3.0    | 3.1    | 3.1    | 17     | 21     | 32     | 34     | 37     | MLG0603P3N0CT000 |
| 3.0       | 3      | 3.0    | 3.1    | 3.1    | 17     | 21     | 32     | 34     | 37     | MLG0603P3N0ST000 |
| 3.1       | 3.1    | 3.1    | 3.2    | 3.2    | 17     | 22     | 33     | 34     | 37     | MLG0603P3N1BT000 |
| 3.1       | 3.1    | 3.1    | 3.2    | 3.2    | 17     | 22     | 33     | 34     | 37     | MLG0603P3N1CT000 |
| 3.1       | 3.1    | 3.1    | 3.2    | 3.2    | 17     | 22     | 33     | 34     | 37     | MLG0603P3N1ST000 |
| 3.2       | 3.2    | 3.2    | 3.3    | 3.3    | 17     | 22     | 34     | 35     | 38     | MLG0603P3N2BT000 |
| 3.2       | 3.2    | 3.2    | 3.3    | 3.3    | 17     | 22     | 34     | 35     | 38     | MLG0603P3N2CT000 |
| 3.2       | 3.2    | 3.2    | 3.3    | 3.3    | 17     | 22     | 34     | 35     | 38     | MLG0603P3N2ST000 |
| 3.3       | 3.3    | 3.4    | 3.4    | 3.4    | 18     | 22     | 33     | 35     | 38     | MLG0603P3N3BT000 |
| 3.3       | 3.3    | 3.4    | 3.4    | 3.4    | 18     | 22     | 33     | 35     | 38     | MLG0603P3N3CT000 |
| 3.3       | 3.3    | 3.4    | 3.4    | 3.4    | 18     | 22     | 33     | 35     | 38     | MLG0603P3N3ST000 |
| 3.4       | 3.4    | 3.5    | 3.5    | 3.6    | 18     | 23     | 34     | 35     | 38     | MLG0603P3N4BT000 |
| 3.4       | 3.4    | 3.5    | 3.5    | 3.6    | 18     | 23     | 34     | 35     | 38     | MLG0603P3N4CT000 |
| 3.4       | 3.4    | 3.5    | 3.5    | 3.6    | 18     | 23     | 34     | 35     | 38     | MLG0603P3N4ST000 |
| 3.5       | 3.5    | 3.6    | 3.6    | 3.7    | 18     | 23     | 34     | 35     | 38     | MLG0603P3N5BT000 |
| 3.5       | 3.5    | 3.6    | 3.6    | 3.7    | 18     | 23     | 34     | 35     | 38     | MLG0603P3N5CT000 |
| 3.5       | 3.5    | 3.6    | 3.6    | 3.7    | 18     | 23     | 34     | 35     | 38     | MLG0603P3N5ST000 |
| 3.6       | 3.6    | 3.7    | 3.7    | 3.8    | 18     | 22     | 33     | 34     | 37     | MLG0603P3N6BT000 |
| 3.6       | 3.6    | 3.7    | 3.7    | 3.8    | 18     | 22     | 33     | 34     | 37     | MLG0603P3N6CT000 |
| 3.6       | 3.6    | 3.7    | 3.7    | 3.8    | 18     | 22     | 33     | 34     | 37     | MLG0603P3N6ST000 |
| 3.7       | 3.7    | 3.8    | 3.9    | 4.0    | 18     | 23     | 34     | 35     | 37     | MLG0603P3N7BT000 |
| 3.7       | 3.7    | 3.8    | 3.9    | 4.0    | 18.0   | 23     | 34     | 35     | 37     | MLG0603P3N7CT000 |
| 3.7       | 3.7    | 3.8    | 3.9    | 4.0    | 18.0   | 23     | 34     | 35     | 37     | MLG0603P3N7ST000 |
| 3.8       | 3.8    | 3.9    | 4.0    | 4.1    | 17.0   | 22     | 32     | 33     | 36     | MLG0603P3N8BT000 |
| 3.8       | 3.8    | 3.9    | 4.0    | 4.1    | 17.0   | 22     | 32     | 33     | 36     | MLG0603P3N8CT000 |
| 3.8       | 3.8    | 3.9    | 4.0    | 4.1    | 17.0   | 22     | 32     | 33     | 36     | MLG0603P3N8ST000 |
| 3.9       | 3.9    | 4.0    | 4.1    | 4.2    | 17.0   | 22     | 32     | 34     | 36     | MLG0603P3N9BT000 |
| 3.9       | 3.9    | 4.0    | 4.1    | 4.2    | 17.0   | 22     | 32     | 34     | 36     | MLG0603P3N9CT000 |
| 3.9       | 3.9    | 4.0    | 4.1    | 4.2    | 17.0   | 22     | 32     | 34     | 36     | MLG0603P3N9ST000 |
| 4.0       | 4.0    | 4.1    | 4.2    | 4.4    | 18.0   | 22     | 32     | 33     | 36     | MLG0603P4N0BT000 |
| 4.0       | 4.0    | 4.1    | 4.2    | 4.4    | 18.0   | 22     | 32     | 33     | 36     | MLG0603P4N0CT000 |
| 4.0       | 4.0    | 4.1    | 4.2    | 4.4    | 18.0   | 22     | 32     | 33     | 36     | MLG0603P4N0ST000 |

\* Please contact us for information on inductance tolerance, G ( $\pm 2\%$ ).

## ○ Measurement equipment

| Product No.  | Manufacturer         |
|--------------|----------------------|
| 4291B+16197A | Agilent Technologies |

\* Equivalent measurement equipment may be used.

• All specifications are subject to change without notice.

MLG-P<sub>series</sub> **MLG0603P Type**

## ■ ELECTRICAL CHARACTERISTICS

## □ L, Q FREQUENCY CHARACTERISTICS TABLE

| L(nH)typ. |        |        |        |        | Q typ. |        |        |        |        | Part No.*        |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------------------|
| 500MHz    | 800MHz | 1.8GHz | 2.0GHz | 2.4GHz | 500MHz | 800MHz | 1.8GHz | 2.0GHz | 2.4GHz |                  |
| 4.1       | 4.1    | 4.3    | 4.3    | 4.5    | 18.0   | 22     | 33     | 34     | 36     | MLG0603P4N1BT000 |
| 4.1       | 4.1    | 4.3    | 4.3    | 4.5    | 18.0   | 22     | 33     | 34     | 36     | MLG0603P4N1CT000 |
| 4.1       | 4.1    | 4.3    | 4.3    | 4.5    | 18.0   | 22     | 33     | 34     | 36     | MLG0603P4N1ST000 |
| 4.2       | 4.2    | 4.4    | 4.5    | 4.6    | 18.0   | 22     | 32     | 33     | 35     | MLG0603P4N2BT000 |
| 4.2       | 4.2    | 4.4    | 4.5    | 4.6    | 18.0   | 22     | 32     | 33     | 35     | MLG0603P4N2CT000 |
| 4.2       | 4.2    | 4.4    | 4.5    | 4.6    | 18     | 22     | 32     | 33     | 35     | MLG0603P4N2ST000 |
| 4.3       | 4.3    | 4.5    | 4.5    | 4.7    | 17     | 21     | 32     | 33     | 35     | MLG0603P4N3ST000 |
| 4.3       | 4.3    | 4.5    | 4.5    | 4.7    | 17     | 21     | 32     | 33     | 35     | MLG0603P4N3HT000 |
| 4.3       | 4.3    | 4.5    | 4.5    | 4.7    | 17     | 21     | 32     | 33     | 35     | MLG0603P4N3JT000 |
| 4.7       | 4.7    | 4.9    | 5.0    | 5.1    | 16     | 21     | 31     | 32     | 34     | MLG0603P4N7ST000 |
| 4.7       | 4.7    | 4.9    | 5.0    | 5.1    | 16     | 21     | 31     | 32     | 34     | MLG0603P4N7HT000 |
| 4.7       | 4.7    | 4.9    | 5.0    | 5.1    | 16     | 21     | 31     | 32     | 34     | MLG0603P4N7JT000 |
| 5.1       | 5.1    | 5.3    | 5.4    | 5.7    | 16     | 21     | 31     | 32     | 34     | MLG0603P5N1ST000 |
| 5.1       | 5.1    | 5.3    | 5.4    | 5.7    | 16     | 21     | 31     | 32     | 34     | MLG0603P5N1HT000 |
| 5.1       | 5.1    | 5.3    | 5.4    | 5.7    | 16     | 21     | 31     | 32     | 34     | MLG0603P5N1JT000 |
| 5.6       | 5.6    | 6.1    | 6.2    | 6.6    | 18     | 22     | 31     | 32     | 32     | MLG0603P5N6ST000 |
| 5.6       | 5.6    | 6.1    | 6.2    | 6.6    | 18     | 22     | 31     | 32     | 32     | MLG0603P5N6HT000 |
| 5.6       | 5.6    | 6.1    | 6.2    | 6.6    | 18     | 22     | 31     | 32     | 32     | MLG0603P5N6JT000 |
| 6.2       | 6.2    | 6.5    | 6.7    | 7.0    | 16     | 21     | 30     | 31     | 33     | MLG0603P6N2ST000 |
| 6.2       | 6.2    | 6.5    | 6.7    | 7.0    | 16     | 21     | 30     | 31     | 33     | MLG0603P6N2HT000 |
| 6.2       | 6.2    | 6.5    | 6.7    | 7.0    | 16     | 21     | 30     | 31     | 33     | MLG0603P6N2JT000 |
| 6.8       | 6.8    | 7.3    | 7.5    | 8.0    | 16     | 21     | 29     | 30     | 31     | MLG0603P6N8HT000 |
| 6.8       | 6.8    | 7.3    | 7.5    | 8.0    | 16     | 21     | 29     | 30     | 31     | MLG0603P6N8JT000 |
| 7.5       | 7.5    | 8.1    | 8.3    | 8.8    | 16     | 21     | 30     | 30     | 32     | MLG0603P7N5HT000 |
| 7.5       | 7.5    | 8.1    | 8.3    | 8.8    | 16     | 21     | 30     | 30     | 32     | MLG0603P7N5JT000 |
| 8.2       | 8.2    | 9.0    | 9.3    | 10.0   | 17     | 21     | 30     | 30     | 31     | MLG0603P8N2HT000 |
| 8.2       | 8.2    | 9.0    | 9.3    | 10.0   | 17     | 21     | 30     | 30     | 31     | MLG0603P8N2JT000 |
| 9.1       | 9.1    | 10.0   | 10.3   | 11.1   | 17     | 21     | 30     | 31     | 32     | MLG0603P9N1HT000 |
| 9.1       | 9.1    | 10.0   | 10.3   | 11.1   | 17     | 21     | 30     | 31     | 32     | MLG0603P9N1JT000 |
| 10        | 10     | 11     | 12     | 13     | 16     | 21     | 28     | 28     | 28     | MLG0603P10NHT000 |
| 10        | 10     | 11     | 12     | 13     | 16     | 21     | 28     | 28     | 28     | MLG0603P10NJT000 |
| 11        | 11     | 13     | 13     | 15     | 18     | 23     | 30     | 30     | 30     | MLG0603P11NHT000 |
| 11        | 11     | 13     | 13     | 15     | 18     | 23     | 30     | 30     | 30     | MLG0603P11NJT000 |
| 12        | 12     | 14     | 15     | 17     | 18     | 22     | 28     | 28     | 27     | MLG0603P12NHT000 |
| 12        | 12     | 14     | 15     | 17     | 18     | 22     | 28     | 28     | 27     | MLG0603P12NJT000 |
| 13        | 13     | 15     | 16     | 19     | 18     | 22     | 28     | 28     | 26     | MLG0603P13NHT000 |
| 13        | 13     | 15     | 16     | 19     | 18     | 22     | 28     | 28     | 26     | MLG0603P13NJT000 |
| 15        | 15     | 18     | 20     | 24     | 18     | 22     | 27     | 26     | 24     | MLG0603P15NHT000 |
| 15        | 15     | 18     | 20     | 24     | 18     | 22     | 27     | 26     | 24     | MLG0603P15NJT000 |
| 16        | 16     | 20     | 22     | 27     | 18     | 22     | 26     | 25     | 22     | MLG0603P16NHT000 |
| 16        | 16     | 20     | 22     | 27     | 18     | 22     | 26     | 25     | 22     | MLG0603P16NJT000 |
| 18        | 18     | 23     | 26     | 33     | 18     | 22     | 25     | 24     | 20     | MLG0603P18NHT000 |
| 18        | 18     | 23     | 26     | 33     | 18     | 22     | 25     | 24     | 20     | MLG0603P18NJT000 |
| 20        | 21     | 27     | 31     | 42     | 18     | 22     | 23     | 22     | 17     | MLG0603P20NHT000 |
| 20        | 21     | 27     | 31     | 42     | 18     | 22     | 23     | 22     | 17     | MLG0603P20NJT000 |
| 22        | 23     | 34     | 40     | 68     | 18     | 21     | 21     | 18     | 11     | MLG0603P22NHT000 |
| 22        | 23     | 34     | 40     | 68     | 18     | 21     | 21     | 18     | 11     | MLG0603P22NJT000 |
| 24        | 25     | 36     | 43     | 72     | 19     | 22     | 21     | 18     | 11     | MLG0603P24NHT000 |
| 24        | 25     | 36     | 43     | 72     | 19     | 22     | 21     | 18     | 11     | MLG0603P24NJT000 |
| 27        | 28     | 45     | 57     |        | 18     | 21     | 18     | 15     |        | MLG0603P27NHT000 |
| 27        | 28     | 45     | 57     |        | 18     | 21     | 18     | 15     |        | MLG0603P27NJT000 |

\* Please contact us for information on inductance tolerance, G ( $\pm 2\%$ ).

## ○ Measurement equipment

| Product No.  | Manufacturer         |
|--------------|----------------------|
| 4291B+16197A | Agilent Technologies |

\* Equivalent measurement equipment may be used.

• All specifications are subject to change without notice.

MLG-P<sub>series</sub> **MLG0603P Type**

## ■ ELECTRICAL CHARACTERISTICS

## □ L, Q FREQUENCY CHARACTERISTICS TABLE

| L(nH)typ. |        |        |        |        | Q typ. |        |        |        |        | Part No.*        |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------------------|
| 500MHz    | 800MHz | 1.8GHz | 2.0GHz | 2.4GHz | 500MHz | 800MHz | 1.8GHz | 2.0GHz | 2.4GHz |                  |
| 30        | 32     | 59     |        |        | 18     | 21     | 15     |        |        | MLG0603P30NHT000 |
| 30        | 32     | 59     |        |        | 18     | 21     | 15     |        |        | MLG0603P30NJT000 |
| 33        | 36     | 68     |        |        | 15     | 17     | 11     |        |        | MLG0603P33NHT000 |
| 33        | 36     | 68     |        |        | 15     | 17     | 11     |        |        | MLG0603P33NJT000 |
| 37        | 39     |        |        |        | 16     | 17     |        |        |        | MLG0603P36NHT000 |
| 37        | 39     |        |        |        | 16     | 17     |        |        |        | MLG0603P36NJT000 |
| 40        | 43     |        |        |        | 15     | 17     |        |        |        | MLG0603P39NHT000 |
| 40        | 43     |        |        |        | 15     | 17     |        |        |        | MLG0603P39NJT000 |
| 44        | 48     |        |        |        | 15     | 16     |        |        |        | MLG0603P43NHT000 |
| 44        | 48     |        |        |        | 15     | 16     |        |        |        | MLG0603P43NJT000 |
| 48        | 53     |        |        |        | 15     | 16     |        |        |        | MLG0603P47NHT000 |
| 48        | 53     |        |        |        | 15     | 16     |        |        |        | MLG0603P47NJT000 |
| 53        | 59     |        |        |        | 15     | 16     |        |        |        | MLG0603P51NHT000 |
| 53        | 59     |        |        |        | 15     | 16     |        |        |        | MLG0603P51NJT000 |
| 58        | 66     |        |        |        | 15     | 15     |        |        |        | MLG0603P56NHT000 |
| 58        | 66     |        |        |        | 15     | 15     |        |        |        | MLG0603P56NJT000 |
| 65        | 76     |        |        |        | 15     | 15     |        |        |        | MLG0603P62NHT000 |
| 65        | 76     |        |        |        | 15     | 15     |        |        |        | MLG0603P62NJT000 |
| 71        | 82     |        |        |        | 15     | 15     |        |        |        | MLG0603P68NHT000 |
| 71        | 82     |        |        |        | 15     | 15     |        |        |        | MLG0603P68NJT000 |
| 79        | 97     |        |        |        | 14     | 13     |        |        |        | MLG0603P75NHT000 |
| 79        | 97     |        |        |        | 14     | 13     |        |        |        | MLG0603P75NJT000 |
| 87        | 109    |        |        |        | 14     | 13     |        |        |        | MLG0603P82NHT000 |
| 87        | 109    |        |        |        | 14     | 13     |        |        |        | MLG0603P82NJT000 |
| 99        | 132    |        |        |        | 13     | 12     |        |        |        | MLG0603P91NHT000 |
| 99        | 132    |        |        |        | 13     | 12     |        |        |        | MLG0603P91NJT000 |
| 110       | 152    |        |        |        | 14     | 12     |        |        |        | MLG0603PR10HT000 |
| 110       | 152    |        |        |        | 14     | 12     |        |        |        | MLG0603PR10JT000 |
| 126       | 211    |        |        |        | 13     | 9      |        |        |        | MLG0603PR11HT000 |
| 126       | 211    |        |        |        | 13     | 9      |        |        |        | MLG0603PR11JT000 |
| 151       |        |        |        |        | 12     |        |        |        |        | MLG0603PR12HT000 |
| 151       |        |        |        |        | 12     |        |        |        |        | MLG0603PR12JT000 |

\* Please contact us for information on inductance tolerance, G ( $\pm 2\%$ ).

## ○ Measurement equipment

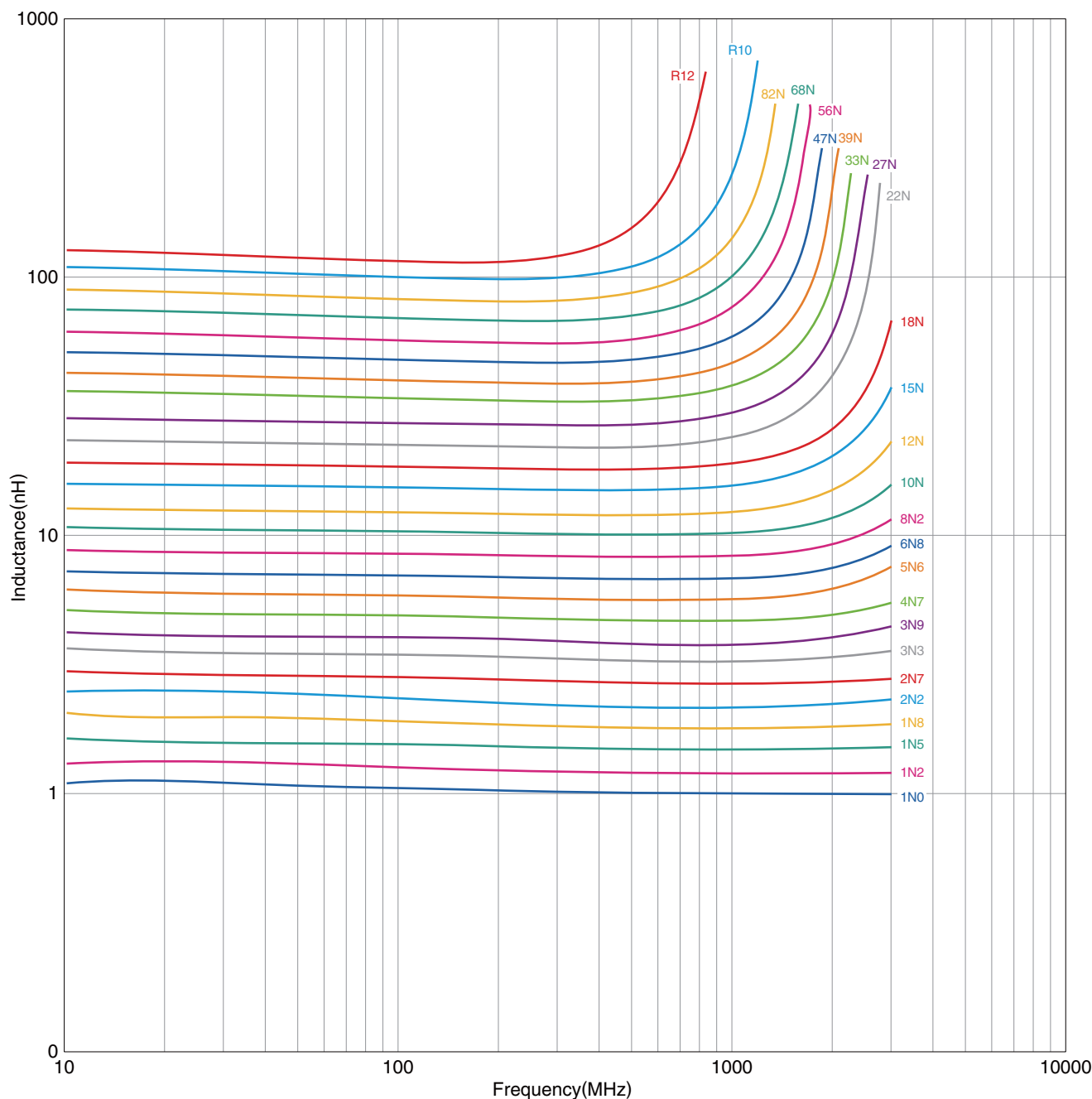
| Product No.  | Manufacturer         |
|--------------|----------------------|
| 4291B+16197A | Agilent Technologies |

\* Equivalent measurement equipment may be used.

MLG-P<sub>series</sub> **MLG0603P Type**

## ■ ELECTRICAL CHARACTERISTICS

## □ L FREQUENCY CHARACTERISTICS GRAPH (EXAMPLE)



○ Measurement equipment

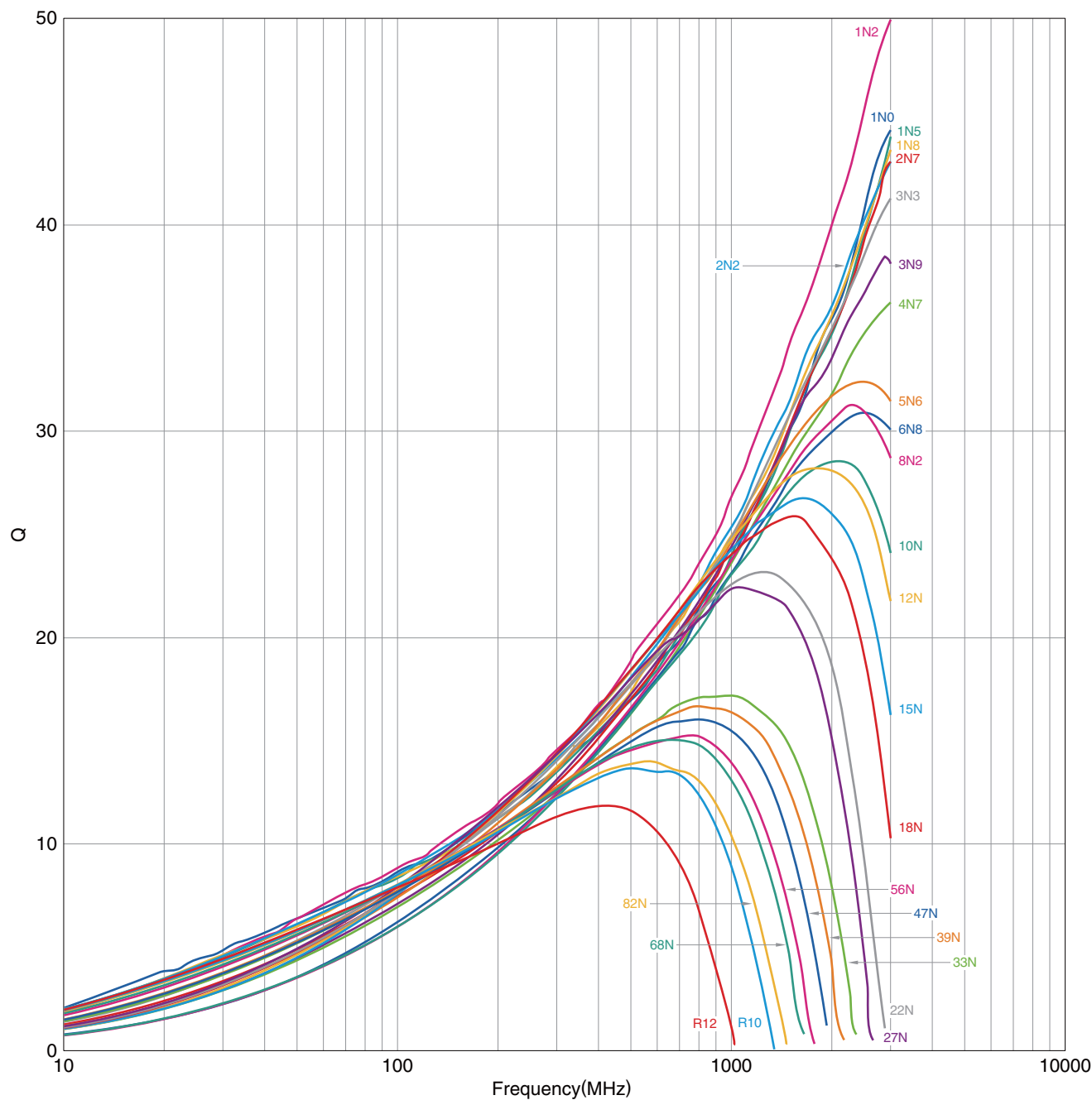
| Product No.   | Manufacturer         |
|---------------|----------------------|
| E4991A+16197A | Agilent Technologies |

\* Equivalent measurement equipment may be used.

MLG-P<sub>series</sub> **MLG0603P Type**

## ■ ELECTRICAL CHARACTERISTICS

## □ Q FREQUENCY CHARACTERISTICS GRAPH (EXAMPLE)



○ Measurement equipment

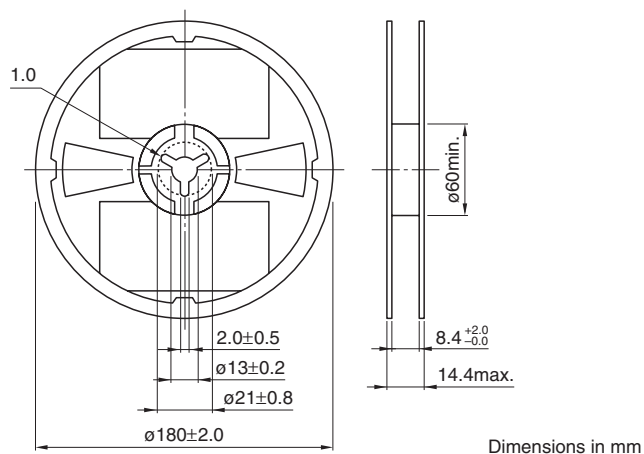
| Product No.   | Manufacturer         |
|---------------|----------------------|
| E4991A+16197A | Agilent Technologies |

\* Equivalent measurement equipment may be used.

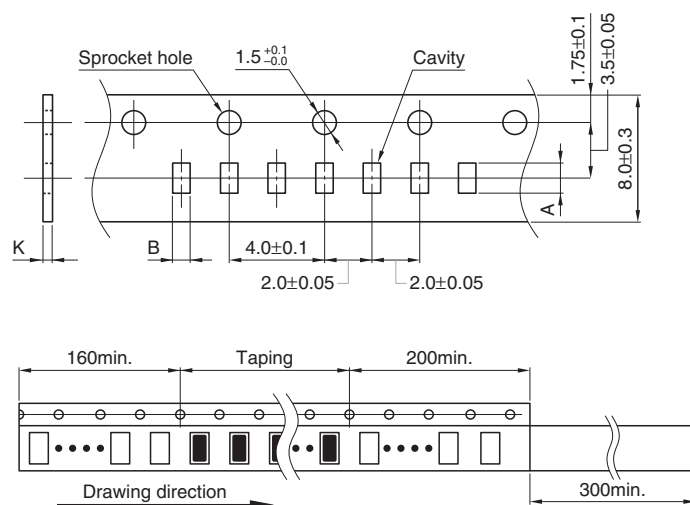
MLG-Q, MLG-P<sub>series</sub>

# Packaging Style

## REEL DIMENSIONS



## TAPE DIMENSIONS



| Type            | A         | B         | K        |
|-----------------|-----------|-----------|----------|
| <b>MLG0402Q</b> | 0.46±0.04 | 0.26±0.04 | 0.4 max. |
| <b>MLG0603P</b> | 0.68±0.05 | 0.38±0.05 | 0.5 max. |

• All specifications are subject to change without notice.