

# Chip Coils



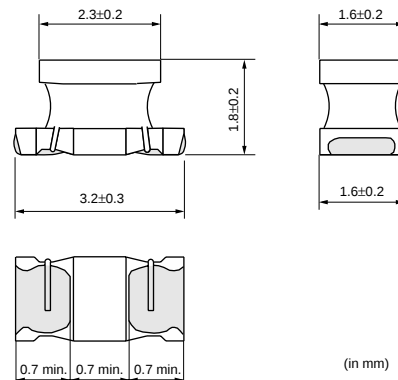
## for General Use Winding Type LQH31M/LQH32M/LQH43M (N) Series

### LQH31M Series

LQH31M series consists of winding type chip coils using Murata's original ferrite core and auto winding technology.

#### ■ Features

1. Wide inductance range from 0.15 to 100 micro H
2. High Q value at high frequencies and low DC resistance
3. Small size (3.2x1.6x1.8mm) and tight pitch mounting
4. Low DC resistance and large current
5. Both flow and reflow soldering heat resistance



| Part Number   | Inductance (μH) | Test Frequency (MHz) | Rated Current (mA) | DC Resistance (ohm) | Q (min.) | Test Frequency (MHz) | Self Resonance Frequency (min.) (MHz) | EIA  |
|---------------|-----------------|----------------------|--------------------|---------------------|----------|----------------------|---------------------------------------|------|
| LQH31MNR15K03 | 0.15 ±10%       | 1                    | 250                | 0.39 ±40%           | 20       | 25                   | 250                                   | 1206 |
| LQH31MNR22K03 | 0.22 ±10%       | 1                    | 240                | 0.43 ±40%           | 20       | 25                   | 250                                   | 1206 |
| LQH31MNR33K03 | 0.33 ±10%       | 1                    | 230                | 0.45 ±40%           | 30       | 25                   | 250                                   | 1206 |
| LQH31MNR47K03 | 0.47 ±10%       | 1                    | 215                | 0.83 ±40%           | 30       | 25                   | 200                                   | 1206 |
| LQH31MNR56K03 | 0.56 ±10%       | 1                    | 200                | 0.61 ±40%           | 30       | 25                   | 180                                   | 1206 |
| LQH31MNR68K03 | 0.68 ±10%       | 1                    | 190                | 0.67 ±40%           | 30       | 25                   | 160                                   | 1206 |
| LQH31MNR82K03 | 0.82 ±10%       | 1                    | 185                | 0.73 ±40%           | 30       | 25                   | 120                                   | 1206 |
| LQH31MN1R0K03 | 1.0 ±10%        | 1                    | 175                | 0.49 ±30%           | 35       | 10                   | 100                                   | 1206 |
| LQH31MN1R2K03 | 1.2 ±10%        | 1                    | 165                | 0.9 ±30%            | 35       | 10                   | 90                                    | 1206 |
| LQH31MN1R5J03 | 1.5 ±5%         | 1                    | 155                | 1.0 ±30%            | 35       | 10                   | 75                                    | 1206 |
| LQH31MN1R5K03 | 1.5 ±10%        | 1                    | 155                | 1.0 ±30%            | 35       | 10                   | 75                                    | 1206 |
| LQH31MN1R8J03 | 1.8 ±5%         | 1                    | 150                | 1.6 ±30%            | 35       | 10                   | 60                                    | 1206 |
| LQH31MN1R8K03 | 1.8 ±10%        | 1                    | 150                | 1.6 ±30%            | 35       | 10                   | 60                                    | 1206 |
| LQH31MN2R2J03 | 2.2 ±5%         | 1                    | 140                | 0.7 ±30%            | 35       | 10                   | 50                                    | 1206 |
| LQH31MN2R2K03 | 2.2 ±10%        | 1                    | 140                | 0.7 ±30%            | 35       | 10                   | 50                                    | 1206 |
| LQH31MN2R7J03 | 2.7 ±5%         | 1                    | 135                | 0.55 ±30%           | 35       | 10                   | 43                                    | 1206 |
| LQH31MN2R7K03 | 2.7 ±10%        | 1                    | 135                | 0.55 ±30%           | 35       | 10                   | 43                                    | 1206 |
| LQH31MN3R3J03 | 3.3 ±5%         | 1                    | 130                | 1.4 ±30%            | 35       | 8                    | 38                                    | 1206 |
| LQH31MN3R3K03 | 3.3 ±10%        | 1                    | 130                | 1.4 ±30%            | 35       | 8                    | 38                                    | 1206 |
| LQH31MN3R9J03 | 3.9 ±5%         | 1                    | 125                | 1.5 ±30%            | 35       | 8                    | 35                                    | 1206 |
| LQH31MN3R9K03 | 3.9 ±10%        | 1                    | 125                | 1.5 ±30%            | 35       | 8                    | 35                                    | 1206 |
| LQH31MN4R7J03 | 4.7 ±5%         | 1                    | 120                | 1.7 ±30%            | 35       | 8                    | 31                                    | 1206 |
| LQH31MN4R7K03 | 4.7 ±10%        | 1                    | 120                | 1.7 ±30%            | 35       | 8                    | 31                                    | 1206 |
| LQH31MN5R6J03 | 5.6 ±5%         | 1                    | 115                | 1.8 ±30%            | 35       | 8                    | 28                                    | 1206 |
| LQH31MN5R6K03 | 5.6 ±10%        | 1                    | 115                | 1.8 ±30%            | 35       | 8                    | 28                                    | 1206 |
| LQH31MN6R8J03 | 6.8 ±5%         | 1                    | 110                | 2.0 ±30%            | 35       | 8                    | 25                                    | 1206 |
| LQH31MN6R8K03 | 6.8 ±10%        | 1                    | 110                | 2.0 ±30%            | 35       | 8                    | 25                                    | 1206 |
| LQH31MN8R2J03 | 8.2 ±5%         | 1                    | 105                | 2.2 ±30%            | 35       | 8                    | 23                                    | 1206 |
| LQH31MN8R2K03 | 8.2 ±10%        | 1                    | 105                | 2.2 ±30%            | 35       | 8                    | 23                                    | 1206 |
| LQH31MN100J03 | 10 ±5%          | 1                    | 100                | 2.5 ±30%            | 35       | 5                    | 20                                    | 1206 |
| LQH31MN100K03 | 10 ±10%         | 1                    | 100                | 2.5 ±30%            | 35       | 5                    | 20                                    | 1206 |
| LQH31MN120J03 | 12 ±5%          | 1                    | 95                 | 2.7 ±30%            | 35       | 5                    | 18                                    | 1206 |
| LQH31MN120K03 | 12 ±10%         | 1                    | 95                 | 2.7 ±30%            | 35       | 5                    | 18                                    | 1206 |
| LQH31MN150J03 | 15 ±5%          | 1                    | 90                 | 3.0 ±30%            | 35       | 5                    | 16                                    | 1206 |
| LQH31MN150K03 | 15 ±10%         | 1                    | 90                 | 3 ±30%              | 35       | 5                    | 16                                    | 1206 |
| LQH31MN180J03 | 18 ±5%          | 1                    | 85                 | 3.4 ±30%            | 35       | 5                    | 15                                    | 1206 |

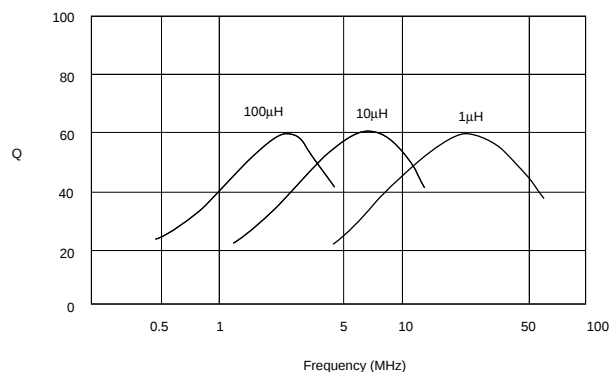
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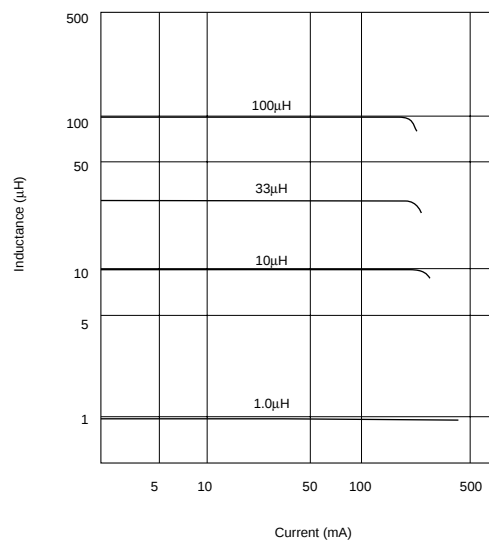
| Part Number   | Inductance (μH) | Test Frequency (MHz) | Rated Current (mA) | DC Resistance (ohm) | Q (min.) | Test Frequency (MHz) | Self Resonance Frequency (min.) (MHz) | EIA  |
|---------------|-----------------|----------------------|--------------------|---------------------|----------|----------------------|---------------------------------------|------|
| LQH31MN180K03 | 18 ±10%         | 1                    | 85                 | 3.4 ±30%            | 35       | 5                    | 15                                    | 1206 |
| LQH31MN220J03 | 22 ±5%          | 1                    | 85                 | 3.1 ±30%            | 40       | 2.5                  | 14                                    | 1206 |
| LQH31MN220K03 | 22 ±10%         | 1                    | 85                 | 3.1 ±30%            | 40       | 2.5                  | 14                                    | 1206 |
| LQH31MN270J03 | 27 ±5%          | 1                    | 85                 | 3.4 ±30%            | 40       | 2.5                  | 13                                    | 1206 |
| LQH31MN270K03 | 27 ±10%         | 1                    | 85                 | 3.4 ±30%            | 40       | 2.5                  | 13                                    | 1206 |
| LQH31MN330J03 | 33 ±5%          | 1                    | 80                 | 3.8 ±30%            | 40       | 2.5                  | 12                                    | 1206 |
| LQH31MN330K03 | 33 ±10%         | 1                    | 80                 | 3.8 ±30%            | 40       | 2.5                  | 12                                    | 1206 |
| LQH31MN390J03 | 39 ±5%          | 1                    | 55                 | 7.2 ±30%            | 40       | 2.5                  | 11                                    | 1206 |
| LQH31MN390K03 | 39 ±10%         | 1                    | 55                 | 7.2 ±30%            | 40       | 2.5                  | 11                                    | 1206 |
| LQH31MN470J03 | 47 ±5%          | 1                    | 55                 | 8 ±30%              | 40       | 2.5                  | 10                                    | 1206 |
| LQH31MN470K03 | 47 ±10%         | 1                    | 55                 | 8.0 ±30%            | 40       | 2.5                  | 10                                    | 1206 |
| LQH31MN560J03 | 56 ±5%          | 1                    | 50                 | 8.9 ±30%            | 40       | 2.5                  | 9                                     | 1206 |
| LQH31MN560K03 | 56 ±10%         | 1                    | 50                 | 8.9 ±30%            | 40       | 2.5                  | 9                                     | 1206 |
| LQH31MN680J03 | 68 ±5%          | 1                    | 50                 | 9.9 ±30%            | 40       | 2.5                  | 8.5                                   | 1206 |
| LQH31MN680K03 | 68 ±10%         | 1                    | 50                 | 9.9 ±30%            | 40       | 2.5                  | 8.5                                   | 1206 |
| LQH31MN820J03 | 82 ±5%          | 1                    | 45                 | 11 ±30%             | 40       | 2.5                  | 7.5                                   | 1206 |
| LQH31MN820K03 | 82 ±10%         | 1                    | 45                 | 11 ±30%             | 40       | 2.5                  | 7.5                                   | 1206 |
| LQH31MN101J03 | 100 ±5%         | 1                    | 45                 | 12 ±30%             | 40       | 2.5                  | 7                                     | 1206 |
| LQH31MN101K03 | 100 ±10%        | 1                    | 45                 | 12 ±30%             | 40       | 2.5                  | 7                                     | 1206 |

Operating Temp. Range : -25°C to +85°C

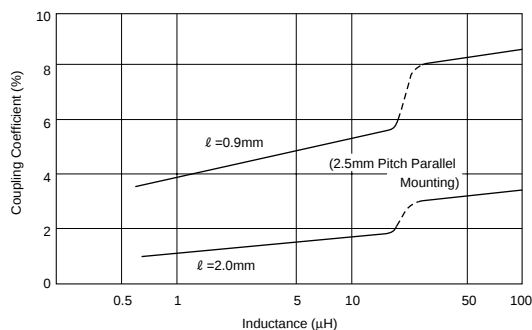
## Q-Frequency Characteristics



## Inductance-Current Characteristics



## Coupling Coefficient

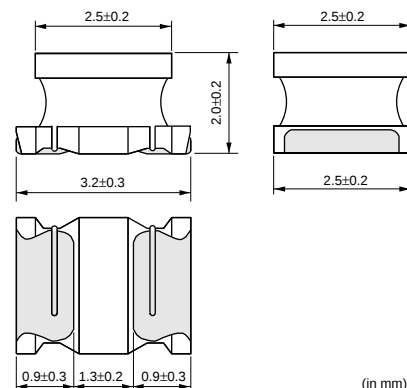


## LQH32M Series

LQH32M series consists of miniature chip inductors wound on a special ferrite core.

### ■ Features

1. High Q value at high frequencies and low DC resistance
2. Wide inductance range from 1.0 to 560 micro H



(in mm)

| Part Number   | Inductance (μH) | Test Frequency | Rated Current (mA) | DC Resistance (ohm) | Q (min.) | Test Frequency | Self Resonance Frequency (min.) (MHz) | EIA  |
|---------------|-----------------|----------------|--------------------|---------------------|----------|----------------|---------------------------------------|------|
| LQH32MN1R0M23 | 1.0 ±20%        | 1MHz           | 445                | 0.5 max.            | 20       | 1MHz           | 100                                   | 1210 |
| LQH32MN1R2M23 | 1.2 ±20%        | 1MHz           | 425                | 0.6 max.            | 20       | 1MHz           | 100                                   | 1210 |
| LQH32MN1R5K23 | 1.5 ±10%        | 1MHz           | 400                | 0.6 max.            | 20       | 1MHz           | 75                                    | 1210 |
| LQH32MN1R8K23 | 1.8 ±10%        | 1MHz           | 390                | 0.7 max.            | 20       | 1MHz           | 60                                    | 1210 |
| LQH32MN2R2K23 | 2.2 ±10%        | 1MHz           | 370                | 0.8 max.            | 20       | 1MHz           | 50                                    | 1210 |
| LQH32MN2R7K23 | 2.7 ±10%        | 1MHz           | 320                | 0.9 max.            | 20       | 1MHz           | 43                                    | 1210 |
| LQH32MN3R3K23 | 3.3 ±10%        | 1MHz           | 300                | 1.0 max.            | 20       | 1MHz           | 38                                    | 1210 |
| LQH32MN3R9K23 | 3.9 ±10%        | 1MHz           | 290                | 1.1 max.            | 20       | 1MHz           | 35                                    | 1210 |
| LQH32MN4R7K23 | 4.7 ±10%        | 1MHz           | 270                | 1.2 max.            | 20       | 1MHz           | 31                                    | 1210 |
| LQH32MN5R6K23 | 5.6 ±10%        | 1MHz           | 250                | 1.3 max.            | 20       | 1MHz           | 28                                    | 1210 |
| LQH32MN6R8K23 | 6.8 ±10%        | 1MHz           | 240                | 1.5 max.            | 20       | 1MHz           | 25                                    | 1210 |
| LQH32MN8R2K23 | 8.2 ±10%        | 1MHz           | 225                | 1.6 max.            | 20       | 1MHz           | 23                                    | 1210 |
| LQH32MN100J23 | 10 ±5%          | 1MHz           | 190                | 1.8 max.            | 35       | 1MHz           | 20                                    | 1210 |
| LQH32MN100K23 | 10 ±10%         | 1MHz           | 190                | 1.8 max.            | 35       | 1MHz           | 20                                    | 1210 |
| LQH32MN120J23 | 12 ±5%          | 1MHz           | 180                | 2.0 max.            | 35       | 1MHz           | 18                                    | 1210 |
| LQH32MN120K23 | 12 ±10%         | 1MHz           | 180                | 2.0 max.            | 35       | 1MHz           | 18                                    | 1210 |
| LQH32MN150J23 | 15 ±5%          | 1MHz           | 170                | 2.2 max.            | 35       | 1MHz           | 16                                    | 1210 |
| LQH32MN150K23 | 15 ±10%         | 1MHz           | 170                | 2.2 max.            | 35       | 1MHz           | 16                                    | 1210 |
| LQH32MN180J23 | 18 ±5%          | 1MHz           | 165                | 2.5 max.            | 35       | 1MHz           | 15                                    | 1210 |
| LQH32MN180K23 | 18 ±10%         | 1MHz           | 165                | 2.5 max.            | 35       | 1MHz           | 15                                    | 1210 |
| LQH32MN220J23 | 22 ±5%          | 1MHz           | 150                | 2.8 max.            | 35       | 1MHz           | 14                                    | 1210 |
| LQH32MN220K23 | 22 ±10%         | 1MHz           | 150                | 2.8 max.            | 35       | 1MHz           | 14                                    | 1210 |
| LQH32MN270J23 | 27 ±5%          | 1MHz           | 125                | 3.1 max.            | 35       | 1MHz           | 13                                    | 1210 |
| LQH32MN270K23 | 27 ±10%         | 1MHz           | 125                | 3.1 max.            | 35       | 1MHz           | 13                                    | 1210 |
| LQH32MN330J23 | 33 ±5%          | 1MHz           | 115                | 3.5 max.            | 40       | 1MHz           | 12                                    | 1210 |
| LQH32MN330K23 | 33 ±10%         | 1MHz           | 115                | 3.5 max.            | 40       | 1MHz           | 12                                    | 1210 |
| LQH32MN390J23 | 39 ±5%          | 1MHz           | 110                | 3.9 max.            | 40       | 1MHz           | 11                                    | 1210 |
| LQH32MN390K23 | 39 ±10%         | 1MHz           | 110                | 3.9 max.            | 40       | 1MHz           | 11                                    | 1210 |
| LQH32MN470J23 | 47 ±5%          | 1MHz           | 100                | 4.3 max.            | 40       | 1MHz           | 11                                    | 1210 |
| LQH32MN470K23 | 47 ±10%         | 1MHz           | 100                | 4.3 max.            | 40       | 1MHz           | 11                                    | 1210 |
| LQH32MN560J23 | 56 ±5%          | 1MHz           | 85                 | 4.9 max.            | 40       | 1MHz           | 10                                    | 1210 |
| LQH32MN560K23 | 56 ±10%         | 1MHz           | 85                 | 4.9 max.            | 40       | 1MHz           | 10                                    | 1210 |
| LQH32MN680J23 | 68 ±5%          | 1MHz           | 80                 | 5.5 max.            | 40       | 1MHz           | 9                                     | 1210 |
| LQH32MN680K23 | 68 ±10%         | 1MHz           | 80                 | 5.5 max.            | 40       | 1MHz           | 9                                     | 1210 |
| LQH32MN820J23 | 82 ±5%          | 1MHz           | 70                 | 6.2 max.            | 40       | 1MHz           | 8.5                                   | 1210 |
| LQH32MN820K23 | 82 ±10%         | 1MHz           | 70                 | 6.2 max.            | 40       | 1MHz           | 8.5                                   | 1210 |
| LQH32MN101J23 | 100 ±5%         | 1MHz           | 80                 | 7.0 max.            | 40       | 796kHz         | 8                                     | 1210 |
| LQH32MN101K23 | 100 ±10%        | 1MHz           | 80                 | 7.0 max.            | 40       | 796kHz         | 8                                     | 1210 |
| LQH32MN121J23 | 120 ±5%         | 1MHz           | 75                 | 8.0 max.            | 40       | 796kHz         | 7.5                                   | 1210 |
| LQH32MN121K23 | 120 ±10%        | 1MHz           | 75                 | 8.0 max.            | 40       | 796kHz         | 7.5                                   | 1210 |
| LQH32MN151J23 | 150 ±5%         | 1MHz           | 70                 | 9.3 max.            | 40       | 796kHz         | 7                                     | 1210 |
| LQH32MN151K23 | 150 ±10%        | 1MHz           | 70                 | 9.3 max.            | 40       | 796kHz         | 7                                     | 1210 |

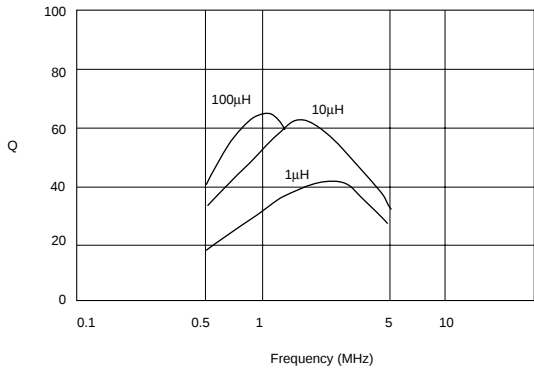
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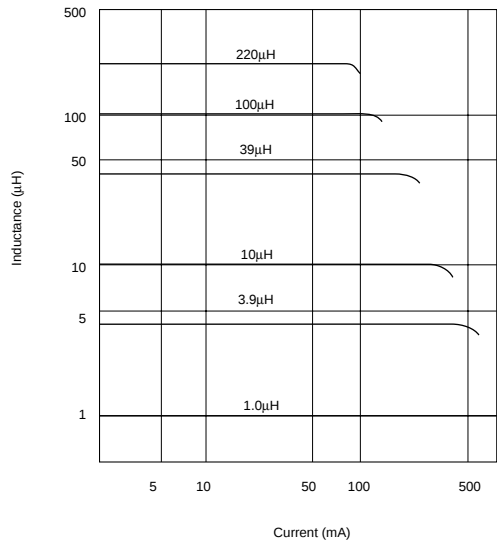
| Part Number   | Inductance (μH) | Test Frequency | Rated Current (mA) | DC Resistance (ohm) | Q (min.) | Test Frequency | Self Resonance Frequency (min.) (MHz) | EIA  |
|---------------|-----------------|----------------|--------------------|---------------------|----------|----------------|---------------------------------------|------|
| LQH32MN181J23 | 180 ±5%         | 1MHz           | 65                 | 10.2 max.           | 40       | 796kHz         | 6                                     | 1210 |
| LQH32MN181K23 | 180 ±10%        | 1MHz           | 65                 | 10.2 max.           | 40       | 796kHz         | 6                                     | 1210 |
| LQH32MN221J23 | 220 ±5%         | 1MHz           | 65                 | 11.8 max.           | 40       | 796kHz         | 5.5                                   | 1210 |
| LQH32MN221K23 | 220 ±10%        | 1MHz           | 65                 | 11.8 max.           | 40       | 796kHz         | 5.5                                   | 1210 |
| LQH32MN271J23 | 270 ±5%         | 1MHz           | 65                 | 12.5 max.           | 40       | 796kHz         | 5                                     | 1210 |
| LQH32MN271K23 | 270 ±10%        | 1MHz           | 65                 | 12.5 max.           | 40       | 796kHz         | 5                                     | 1210 |
| LQH32MN331J23 | 330 ±5%         | 1MHz           | 65                 | 13.0 max.           | 40       | 796kHz         | 5                                     | 1210 |
| LQH32MN331K23 | 330 ±10%        | 1MHz           | 65                 | 13.0 max.           | 40       | 796kHz         | 5                                     | 1210 |
| LQH32MN391J23 | 390 ±5%         | 1MHz           | 50                 | 22.0 max.           | 50       | 796kHz         | 5                                     | 1210 |
| LQH32MN391K23 | 390 ±10%        | 1MHz           | 50                 | 22.0 max.           | 50       | 796kHz         | 5                                     | 1210 |
| LQH32MN471J23 | 470 ±5%         | 1kHz           | 45                 | 25.0 max.           | 50       | 796kHz         | 5                                     | 1210 |
| LQH32MN471K23 | 470 ±10%        | 1kHz           | 45                 | 25.0 max.           | 50       | 796kHz         | 5                                     | 1210 |
| LQH32MN561J23 | 560 ±5%         | 1kHz           | 40                 | 28.0 max.           | 50       | 796kHz         | 5                                     | 1210 |
| LQH32MN561K23 | 560 ±10%        | 1kHz           | 40                 | 28.0 max.           | 50       | 796kHz         | 5                                     | 1210 |

Operating Temp. Range : -25°C to +85°C

■ Q-Frequency Characteristics



■ Inductance-Current Characteristics

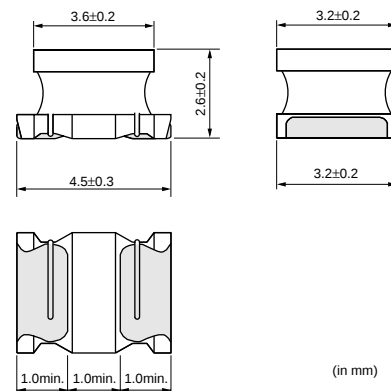


## LQH43M/N Series

LQH43M/N series consists of winding type chip coils for general use by Murata's original auto winding technology and ferrite core.

### ■ Features

1. High Q value at high frequency and low DC resistance
2. Wide inductance range from 1.0 to 2200 micro H
3. Large current and large inductance



| Part Number   | Inductance (μH) | Test Frequency | Rated Current (mA) | DC Resistance (ohm) | Q (min.) | Test Frequency | Self Resonance Frequency (min.) (MHz) | EIA  |
|---------------|-----------------|----------------|--------------------|---------------------|----------|----------------|---------------------------------------|------|
| LQH43MN1R0M03 | 1.0 ±20%        | 1MHz           | 500                | 0.20 max.           | 20       | 1MHz           | 120                                   | 1812 |
| LQH43MN1R2M03 | 1.2 ±20%        | 1MHz           | 500                | 0.20 max.           | 20       | 1MHz           | 100                                   | 1812 |
| LQH43MN1R5M03 | 1.5 ±20%        | 1MHz           | 500                | 0.30 max.           | 20       | 1MHz           | 85                                    | 1812 |
| LQH43MN1R8M03 | 1.8 ±20%        | 1MHz           | 500                | 0.30 max.           | 20       | 1MHz           | 75                                    | 1812 |
| LQH43MN2R2M03 | 2.2 ±20%        | 1MHz           | 500                | 0.30 max.           | 20       | 1MHz           | 62                                    | 1812 |
| LQH43MN2R7M03 | 2.7 ±20%        | 1MHz           | 500                | 0.32 max.           | 20       | 1MHz           | 53                                    | 1812 |
| LQH43MN3R3M03 | 3.3 ±20%        | 1MHz           | 500                | 0.35 max.           | 20       | 1MHz           | 47                                    | 1812 |
| LQH43MN3R9M03 | 3.9 ±20%        | 1MHz           | 500                | 0.38 max.           | 20       | 1MHz           | 41                                    | 1812 |
| LQH43MN4R7K03 | 4.7 ±10%        | 1MHz           | 500                | 0.40 max.           | 30       | 1MHz           | 38                                    | 1812 |
| LQH43MN5R6K03 | 5.6 ±10%        | 1MHz           | 500                | 0.47 max.           | 30       | 1MHz           | 33                                    | 1812 |
| LQH43MN6R8K03 | 6.8 ±10%        | 1MHz           | 450                | 0.50 max.           | 30       | 1MHz           | 31                                    | 1812 |
| LQH43MN8R2K03 | 8.2 ±10%        | 1MHz           | 450                | 0.56 max.           | 30       | 1MHz           | 27                                    | 1812 |
| LQH43MN100J03 | 10 ±5%          | 1MHz           | 400                | 0.56 max.           | 35       | 1MHz           | 23                                    | 1812 |
| LQH43MN100K03 | 10 ±10%         | 1MHz           | 400                | 0.56 max.           | 35       | 1MHz           | 23                                    | 1812 |
| LQH43MN120J03 | 12 ±5%          | 1MHz           | 380                | 0.62 max.           | 35       | 1MHz           | 21                                    | 1812 |
| LQH43MN120K03 | 12 ±10%         | 1MHz           | 380                | 0.62 max.           | 35       | 1MHz           | 21                                    | 1812 |
| LQH43MN150J03 | 15 ±5%          | 1MHz           | 360                | 0.73 max.           | 35       | 1MHz           | 19                                    | 1812 |
| LQH43MN150K03 | 15 ±10%         | 1MHz           | 360                | 0.73 max.           | 35       | 1MHz           | 19                                    | 1812 |
| LQH43MN180J03 | 18 ±5%          | 1MHz           | 340                | 0.82 max.           | 35       | 1MHz           | 17                                    | 1812 |
| LQH43MN180K03 | 18 ±10%         | 1MHz           | 340                | 0.82 max.           | 35       | 1MHz           | 17                                    | 1812 |
| LQH43MN220J03 | 22 ±5%          | 1MHz           | 320                | 0.94 max.           | 35       | 1MHz           | 15                                    | 1812 |
| LQH43MN220K03 | 22 ±10%         | 1MHz           | 320                | 0.94 max.           | 35       | 1MHz           | 15                                    | 1812 |
| LQH43MN270J03 | 27 ±5%          | 1MHz           | 300                | 1.1 max.            | 35       | 1MHz           | 14                                    | 1812 |
| LQH43MN270K03 | 27 ±10%         | 1MHz           | 300                | 1.1 max.            | 35       | 1MHz           | 14                                    | 1812 |
| LQH43MN330J03 | 33 ±5%          | 1MHz           | 270                | 1.2 max.            | 35       | 1MHz           | 12                                    | 1812 |
| LQH43MN330K03 | 33 ±10%         | 1MHz           | 270                | 1.2 max.            | 35       | 1MHz           | 12                                    | 1812 |
| LQH43MN390J03 | 39 ±5%          | 1MHz           | 240                | 1.4 max.            | 35       | 1MHz           | 11                                    | 1812 |
| LQH43MN390K03 | 39 ±10%         | 1MHz           | 240                | 1.4 max.            | 35       | 1MHz           | 11                                    | 1812 |
| LQH43MN470J03 | 47 ±5%          | 1MHz           | 220                | 1.5 max.            | 35       | 1MHz           | 10                                    | 1812 |
| LQH43MN470K03 | 47 ±10%         | 1MHz           | 220                | 1.5 max.            | 35       | 1MHz           | 10                                    | 1812 |
| LQH43MN560J03 | 56 ±5%          | 1MHz           | 200                | 1.7 max.            | 35       | 1MHz           | 9.3                                   | 1812 |
| LQH43MN560K03 | 56 ±10%         | 1MHz           | 200                | 1.7 max.            | 35       | 1MHz           | 9.3                                   | 1812 |
| LQH43MN680J03 | 68 ±5%          | 1MHz           | 180                | 1.9 max.            | 35       | 1MHz           | 8.4                                   | 1812 |
| LQH43MN680K03 | 68 ±10%         | 1MHz           | 180                | 1.9 max.            | 35       | 1MHz           | 8.4                                   | 1812 |
| LQH43MN820J03 | 82 ±5%          | 1MHz           | 170                | 2.2 max.            | 35       | 1MHz           | 7.5                                   | 1812 |
| LQH43MN820K03 | 82 ±10%         | 1MHz           | 170                | 2.2 max.            | 35       | 1MHz           | 7.5                                   | 1812 |
| LQH43MN101J03 | 100 ±5%         | 1MHz           | 160                | 2.5 max.            | 40       | 796kHz         | 6.8                                   | 1812 |
| LQH43MN101K03 | 100 ±10%        | 1MHz           | 160                | 2.5 max.            | 40       | 796kHz         | 6.8                                   | 1812 |
| LQH43MN121J03 | 120 ±5%         | 1MHz           | 150                | 3.0 max.            | 40       | 796kHz         | 6.2                                   | 1812 |
| LQH43MN121K03 | 120 ±10%        | 1MHz           | 150                | 3.0 max.            | 40       | 796kHz         | 6.2                                   | 1812 |
| LQH43MN151J03 | 150 ±5%         | 1MHz           | 130                | 3.7 max.            | 40       | 796kHz         | 5.5                                   | 1812 |
| LQH43MN151K03 | 150 ±10%        | 1MHz           | 130                | 3.7 max.            | 40       | 796kHz         | 5.5                                   | 1812 |

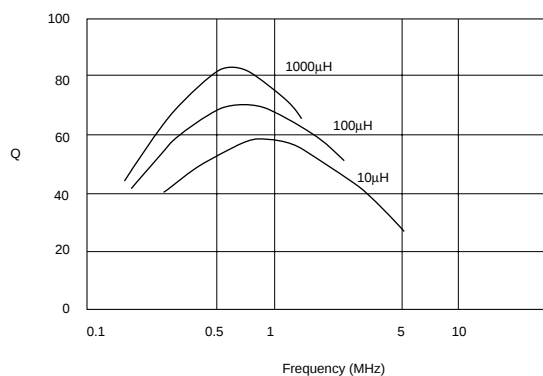
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| Part Number   | Inductance (μH) | Test Frequency | Rated Current (mA) | DC Resistance (ohm) | Q (min.) | Test Frequency | Self Resonance Frequency (min.) (MHz) | EIA  |
|---------------|-----------------|----------------|--------------------|---------------------|----------|----------------|---------------------------------------|------|
| LQH43MN181J03 | 180 ±5%         | 1MHz           | 120                | 4.5 max.            | 40       | 796kHz         | 5                                     | 1812 |
| LQH43MN181K03 | 180 ±10%        | 1MHz           | 120                | 4.5 max.            | 40       | 796kHz         | 5                                     | 1812 |
| LQH43MN221J03 | 220 ±5%         | 1MHz           | 110                | 5.4 max.            | 40       | 796kHz         | 4.5                                   | 1812 |
| LQH43MN221K03 | 220 ±10%        | 1MHz           | 110                | 5.4 max.            | 40       | 796kHz         | 4.5                                   | 1812 |
| LQH43MN271J03 | 270 ±5%         | 1MHz           | 100                | 6.8 max.            | 40       | 796kHz         | 4                                     | 1812 |
| LQH43MN271K03 | 270 ±10%        | 1MHz           | 100                | 6.8 max.            | 40       | 796kHz         | 4                                     | 1812 |
| LQH43MN331J03 | 330 ±5%         | 1MHz           | 95                 | 8.2 max.            | 40       | 796kHz         | 3.6                                   | 1812 |
| LQH43MN331K03 | 330 ±10%        | 1MHz           | 95                 | 8.2 max.            | 40       | 796kHz         | 3.6                                   | 1812 |
| LQH43MN391J03 | 390 ±5%         | 1MHz           | 90                 | 9.7 max.            | 40       | 796kHz         | 3.3                                   | 1812 |
| LQH43MN391K03 | 390 ±10%        | 1MHz           | 90                 | 9.7 max.            | 40       | 796kHz         | 3.3                                   | 1812 |
| LQH43MN471J03 | 470 ±5%         | 1kHz           | 80                 | 11.8 max.           | 40       | 796kHz         | 3                                     | 1812 |
| LQH43MN471K03 | 470 ±10%        | 1kHz           | 80                 | 11.8 max.           | 40       | 796kHz         | 3                                     | 1812 |
| LQH43MN561J03 | 560 ±5%         | 1kHz           | 70                 | 14.5 max.           | 40       | 796kHz         | 2.7                                   | 1812 |
| LQH43MN561K03 | 560 ±10%        | 1kHz           | 70                 | 14.5 max.           | 40       | 796kHz         | 2.7                                   | 1812 |
| LQH43MN681J03 | 680 ±5%         | 1kHz           | 65                 | 17.0 max.           | 40       | 796kHz         | 2.5                                   | 1812 |
| LQH43MN681K03 | 680 ±10%        | 1kHz           | 65                 | 17.0 max.           | 40       | 796kHz         | 2.5                                   | 1812 |
| LQH43MN821J03 | 820 ±5%         | 1kHz           | 60                 | 20.5 max.           | 40       | 796kHz         | 2.2                                   | 1812 |
| LQH43MN821K03 | 820 ±10%        | 1kHz           | 60                 | 20.5 max.           | 40       | 796kHz         | 2.2                                   | 1812 |
| LQH43MN102J03 | 1000 ±5%        | 1kHz           | 50                 | 25.0 max.           | 40       | 252kHz         | 2                                     | 1812 |
| LQH43MN102K03 | 1000 ±10%       | 1kHz           | 50                 | 25.0 max.           | 40       | 252kHz         | 2                                     | 1812 |
| LQH43MN122J03 | 1200 ±5%        | 1kHz           | 45                 | 30.0 max.           | 40       | 252kHz         | 1.8                                   | 1812 |
| LQH43MN122K03 | 1200 ±10%       | 1kHz           | 45                 | 30.0 max.           | 40       | 252kHz         | 1.8                                   | 1812 |
| LQH43MN152J03 | 1500 ±5%        | 1kHz           | 40                 | 37.0 max.           | 40       | 252kHz         | 1.6                                   | 1812 |
| LQH43MN152K03 | 1500 ±10%       | 1kHz           | 40                 | 37.0 max.           | 40       | 252kHz         | 1.6                                   | 1812 |
| LQH43NN182J03 | 1800 ±5%        | 1kHz           | 35                 | 45.0 max.           | 40       | 252kHz         | 1.5                                   | 1812 |
| LQH43NN182K03 | 1800 ±10%       | 1kHz           | 35                 | 45.0 max.           | 40       | 252kHz         | 1.5                                   | 1812 |
| LQH43NN222J03 | 2200 ±5%        | 1kHz           | 30                 | 50.0 max.           | 40       | 252kHz         | 1.3                                   | 1812 |
| LQH43NN222K03 | 2200 ±10%       | 1kHz           | 30                 | 50.0 max.           | 40       | 252kHz         | 1.3                                   | 1812 |

Operating Temp. Range : -25°C to +85°C

## Q-Frequency Characteristics



## Inductance-Current Characteristics

