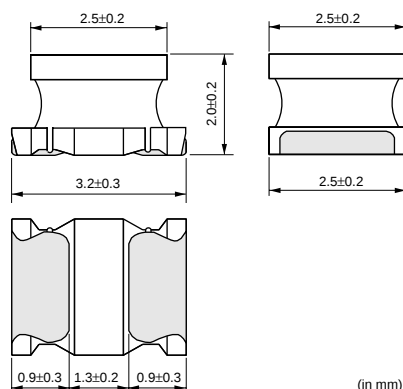


# Chip Inductor (Chip Coil) for General Use Wire Wound Type

## LQH32M Series (1210 Size)

### ■ Dimensions



### ■ Packaging

| Code | Packaging           | Minimum Quantity |
|------|---------------------|------------------|
| L    | 180mm Embossed Tape | 2000             |
| K    | 330mm Embossed Tape | 7500             |

### ■ Rated Value (□: packaging code)

| Part Number    | Inductance | Test Frequency | Rated Current | Max. of DC resistance | Q (min.) | Test Frequency | Self Resonance Frequency (min.) |
|----------------|------------|----------------|---------------|-----------------------|----------|----------------|---------------------------------|
| LQH32MN1R0M23□ | 1.0μH±20%  | 1MHz           | 445mA         | 0.5ohm                | 20       | 1MHz           | 100MHz                          |
| LQH32MN1R2M23□ | 1.2μH±20%  | 1MHz           | 425mA         | 0.6ohm                | 20       | 1MHz           | 100MHz                          |
| LQH32MN1R5K23□ | 1.5μH±10%  | 1MHz           | 400mA         | 0.6ohm                | 20       | 1MHz           | 75MHz                           |
| LQH32MN1R8K23□ | 1.8μH±10%  | 1MHz           | 390mA         | 0.7ohm                | 20       | 1MHz           | 60MHz                           |
| LQH32MN2R2K23□ | 2.2μH±10%  | 1MHz           | 370mA         | 0.8ohm                | 20       | 1MHz           | 50MHz                           |
| LQH32MN2R7K23□ | 2.7μH±10%  | 1MHz           | 320mA         | 0.9ohm                | 20       | 1MHz           | 43MHz                           |
| LQH32MN3R3K23□ | 3.3μH±10%  | 1MHz           | 300mA         | 1.0ohm                | 20       | 1MHz           | 38MHz                           |
| LQH32MN3R9K23□ | 3.9μH±10%  | 1MHz           | 290mA         | 1.1ohm                | 20       | 1MHz           | 35MHz                           |
| LQH32MN4R7K23□ | 4.7μH±10%  | 1MHz           | 270mA         | 1.2ohm                | 20       | 1MHz           | 31MHz                           |
| LQH32MN5R6K23□ | 5.6μH±10%  | 1MHz           | 250mA         | 1.3ohm                | 20       | 1MHz           | 28MHz                           |
| LQH32MN6R8K23□ | 6.8μH±10%  | 1MHz           | 240mA         | 1.5ohm                | 20       | 1MHz           | 25MHz                           |
| LQH32MN8R2K23□ | 8.2μH±10%  | 1MHz           | 225mA         | 1.6ohm                | 20       | 1MHz           | 23MHz                           |
| LQH32MN100J23□ | 10μH±5%    | 1MHz           | 190mA         | 1.8ohm                | 35       | 1MHz           | 20MHz                           |
| LQH32MN100K23□ | 10μH±10%   | 1MHz           | 190mA         | 1.8ohm                | 35       | 1MHz           | 20MHz                           |
| LQH32MN120J23□ | 12μH±5%    | 1MHz           | 180mA         | 2.0ohm                | 35       | 1MHz           | 18MHz                           |
| LQH32MN120K23□ | 12μH±10%   | 1MHz           | 180mA         | 2.0ohm                | 35       | 1MHz           | 18MHz                           |
| LQH32MN150J23□ | 15μH±5%    | 1MHz           | 170mA         | 2.2ohm                | 35       | 1MHz           | 16MHz                           |
| LQH32MN150K23□ | 15μH±10%   | 1MHz           | 170mA         | 2.2ohm                | 35       | 1MHz           | 16MHz                           |
| LQH32MN180J23□ | 18μH±5%    | 1MHz           | 165mA         | 2.5ohm                | 35       | 1MHz           | 15MHz                           |
| LQH32MN180K23□ | 18μH±10%   | 1MHz           | 165mA         | 2.5ohm                | 35       | 1MHz           | 15MHz                           |
| LQH32MN220J23□ | 22μH±5%    | 1MHz           | 150mA         | 2.8ohm                | 35       | 1MHz           | 14MHz                           |
| LQH32MN220K23□ | 22μH±10%   | 1MHz           | 150mA         | 2.8ohm                | 35       | 1MHz           | 14MHz                           |
| LQH32MN270J23□ | 27μH±5%    | 1MHz           | 125mA         | 3.1ohm                | 35       | 1MHz           | 13MHz                           |
| LQH32MN270K23□ | 27μH±10%   | 1MHz           | 125mA         | 3.1ohm                | 35       | 1MHz           | 13MHz                           |

Class of Magnetic Shield: No magnetic shield    Operating Temperature Range: -40°C to +85°C

Continued on the following page.

● This data sheet is applied for CHIP INDUCTORS (CHIP COILS) used for General Electronics equipment for your design.

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| Part Number    | Inductance | Test Frequency | Rated Current | Max. of DC resistance | Q (min.) | Test Frequency | Self Resonance Frequency (min.) |
|----------------|------------|----------------|---------------|-----------------------|----------|----------------|---------------------------------|
| LQH32MN330J23□ | 33μH±5%    | 1MHz           | 115mA         | 3.5ohm                | 40       | 1MHz           | 12MHz                           |
| LQH32MN330K23□ | 33μH±10%   | 1MHz           | 115mA         | 3.5ohm                | 40       | 1MHz           | 12MHz                           |
| LQH32MN390J23□ | 39μH±5%    | 1MHz           | 110mA         | 3.9ohm                | 40       | 1MHz           | 11MHz                           |
| LQH32MN390K23□ | 39μH±10%   | 1MHz           | 110mA         | 3.9ohm                | 40       | 1MHz           | 11MHz                           |
| LQH32MN470J23□ | 47μH±5%    | 1MHz           | 100mA         | 4.3ohm                | 40       | 1MHz           | 11MHz                           |
| LQH32MN470K23□ | 47μH±10%   | 1MHz           | 100mA         | 4.3ohm                | 40       | 1MHz           | 11MHz                           |
| LQH32MN560J23□ | 56μH±5%    | 1MHz           | 85mA          | 4.9ohm                | 40       | 1MHz           | 10MHz                           |
| LQH32MN560K23□ | 56μH±10%   | 1MHz           | 85mA          | 4.9ohm                | 40       | 1MHz           | 10MHz                           |
| LQH32MN680J23□ | 68μH±5%    | 1MHz           | 80mA          | 5.5ohm                | 40       | 1MHz           | 9MHz                            |
| LQH32MN680K23□ | 68μH±10%   | 1MHz           | 80mA          | 5.5ohm                | 40       | 1MHz           | 9MHz                            |
| LQH32MN820J23□ | 82μH±5%    | 1MHz           | 70mA          | 6.2ohm                | 40       | 1MHz           | 8.5MHz                          |
| LQH32MN820K23□ | 82μH±10%   | 1MHz           | 70mA          | 6.2ohm                | 40       | 1MHz           | 8.5MHz                          |
| LQH32MN101J23□ | 100μH±5%   | 1MHz           | 80mA          | 7.0ohm                | 40       | 796kHz         | 8MHz                            |
| LQH32MN101K23□ | 100μH±10%  | 1MHz           | 80mA          | 7.0ohm                | 40       | 796kHz         | 8MHz                            |
| LQH32MN121J23□ | 120μH±5%   | 1MHz           | 75mA          | 8.0ohm                | 40       | 796kHz         | 7.5MHz                          |
| LQH32MN121K23□ | 120μH±10%  | 1MHz           | 75mA          | 8.0ohm                | 40       | 796kHz         | 7.5MHz                          |
| LQH32MN151J23□ | 150μH±5%   | 1MHz           | 70mA          | 9.3ohm                | 40       | 796kHz         | 7MHz                            |
| LQH32MN151K23□ | 150μH±10%  | 1MHz           | 70mA          | 9.3ohm                | 40       | 796kHz         | 7MHz                            |
| LQH32MN181J23□ | 180μH±5%   | 1MHz           | 65mA          | 10.2ohm               | 40       | 796kHz         | 6MHz                            |
| LQH32MN181K23□ | 180μH±10%  | 1MHz           | 65mA          | 10.2ohm               | 40       | 796kHz         | 6MHz                            |
| LQH32MN221J23□ | 220μH±5%   | 1MHz           | 65mA          | 11.8ohm               | 40       | 796kHz         | 5.5MHz                          |
| LQH32MN221K23□ | 220μH±10%  | 1MHz           | 65mA          | 11.8ohm               | 40       | 796kHz         | 5.5MHz                          |
| LQH32MN271J23□ | 270μH±5%   | 1MHz           | 65mA          | 12.5ohm               | 40       | 796kHz         | 5MHz                            |
| LQH32MN271K23□ | 270μH±10%  | 1MHz           | 65mA          | 12.5ohm               | 40       | 796kHz         | 5MHz                            |
| LQH32MN331J23□ | 330μH±5%   | 1MHz           | 65mA          | 13.0ohm               | 40       | 796kHz         | 5MHz                            |
| LQH32MN331K23□ | 330μH±10%  | 1MHz           | 65mA          | 13.0ohm               | 40       | 796kHz         | 5MHz                            |
| LQH32MN391J23□ | 390μH±5%   | 1MHz           | 50mA          | 22.0ohm               | 50       | 796kHz         | 5MHz                            |
| LQH32MN391K23□ | 390μH±10%  | 1MHz           | 50mA          | 22.0ohm               | 50       | 796kHz         | 5MHz                            |
| LQH32MN471J23□ | 470μH±5%   | 1kHz           | 45mA          | 25.0ohm               | 50       | 796kHz         | 5MHz                            |
| LQH32MN471K23□ | 470μH±10%  | 1kHz           | 45mA          | 25.0ohm               | 50       | 796kHz         | 5MHz                            |
| LQH32MN561J23□ | 560μH±5%   | 1kHz           | 40mA          | 28.0ohm               | 50       | 796kHz         | 5MHz                            |
| LQH32MN561K23□ | 560μH±10%  | 1kHz           | 40mA          | 28.0ohm               | 50       | 796kHz         | 5MHz                            |

Class of Magnetic Shield: No magnetic shield    Operating Temperature Range: -40°C to +85°C

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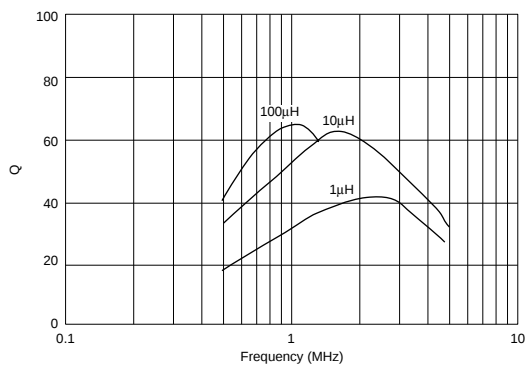
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 **Note:**

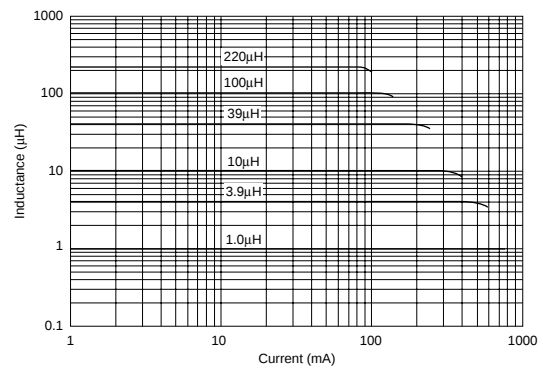
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### ■ Q-Frequency Characteristics (Typ.)



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



### ■ ⚠ Caution/Notice

#### ⚠ Caution (Rating)

Do not use products beyond the rated current as this may create excessive heat.

#### Notice

Solderability of Tin plating termination chip might be deteriorated when low temperature soldering profile where peak solder temperature is below the Tin melting point is used. Please confirm the solderability of Tin plating termination chip before use.

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