

# LQH31MN680K03#

“#” at the end indicates the package specification code.

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



< List of part numbers with package codes >

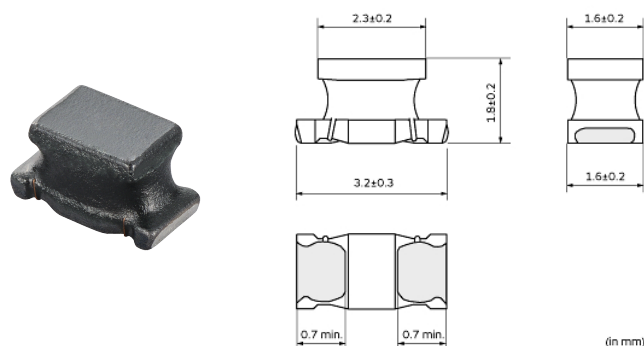
LQH31MN680K03K

LQH31MN680K03L

## Applications

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Unsuitable Applications  | Please be sure to read and comply with these "Precautions for use."                                                                                                                                                                                                                                                                                                                                                                                                              |
| Specific Applications    | <p>Consumer equipment, Medical equipment [GHTF A/B/C] except for implant &amp; surgery &amp; auto injector, Industrial equipment except for transportation &amp; facility &amp; energy equipment</p> <p>Please refer to Our Website and specifications, etc. for information about the performance, functions, quality, management, and safety required for the above applications, and use Products after confirming the performance and reliability of the actual Product.</p> |
| Recommended Applications | Consumer equipment                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

## Appearance & Shape



## Notices

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

### Attention

1. This datasheet is downloaded from the website of Murata Manufacturing Co., Ltd. Therefore, it's specifications are subject to change or our products in it may be discontinued without advance notice. Please check with our sales representatives or product engineers before ordering.

2. This datasheet has only typical specifications because there is no space for detailed specifications.

Therefore, please review our product specifications or consult the approval sheet for product specifications before ordering.

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## References

| Packaging | Specifications   | Standard Packing Quantity |
|-----------|------------------|---------------------------|
| K         | 330Embossed Tape | 7500                      |
| L         | 180Embossed Tape | 2000                      |

| Mass (typ.) |        |
|-------------|--------|
| 1 piece     | 0.029g |

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## Specifications

|                                                                          |               |
|--------------------------------------------------------------------------|---------------|
| L size                                                                   | 3.2±0.3mm     |
| W size                                                                   | 1.6±0.2mm     |
| T size                                                                   | 1.8±0.2mm     |
| Size code inch (mm)                                                      | 1206 (3216)   |
| Inductance                                                               | 68μH±10%      |
| Inductance Test Frequency                                                | 1MHz          |
| Rated current (Itemp)<br>(Based on Temperature rise)                     | 50mA          |
| Max. of DC resistance                                                    | 12.87Ω        |
| DC resistance                                                            | 9.9Ω±30%      |
| Operating Temperature<br>Range(Self-temperature rise<br>is not included) | -40°C to 85°C |
| Class of magnetic shield                                                 | Non-Shielded  |
| Q(min.)                                                                  | 40            |
| Q Test Frequency                                                         | 2.5MHz        |
| Self resonance frequency<br>(min.)                                       | 8.5MHz        |
| Brand                                                                    | Murata        |
| Series                                                                   | LQH31MN_03    |

### Attention

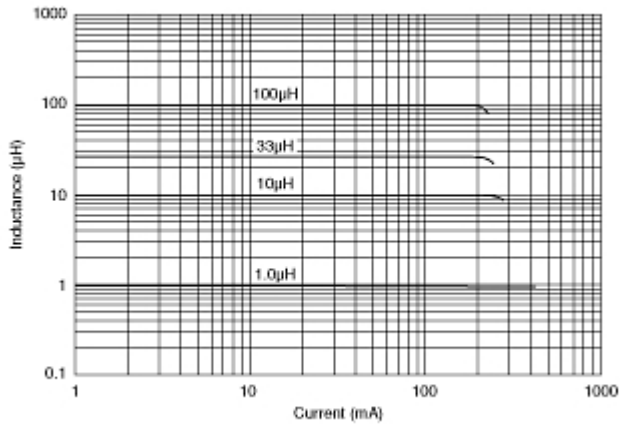
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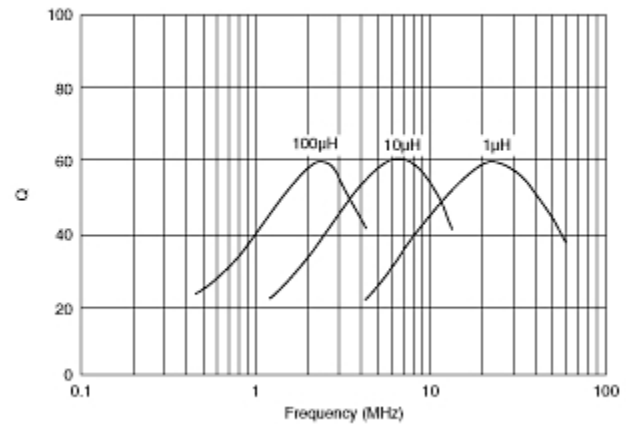
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## Characteristic Data



Impedance - Current Characteristics



Q-Frequency Characteristics

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