

LQH3NPN221MGR#

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

Size Code 3030 (1212) in mm (in inch), 1.0mm max. Thickness. Low DC Resistance Type



< List of part numbers with package codes >

LQH3NPN221MGRK LQH3NPN221MGRL

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 & surgery & auto injector, Industrial equipment except for transportation & facility & 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, inductance will be within $\pm 30\%$ of initial inductance value range. Keep the temperature (ambient temperature plus self-generation of heat) under 105°C . When rated current is applied to the products, temperature rise caused by self-generated heat shall be limited to 20°C max. When rated current is applied to the products, temperature rise caused by self-generated heat shall be limited to 20°C max.

Attention

1. This datasheet is downloaded from the website of Murata Manufacturing Co., Ltd. Therefore, its 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 | 11000 |
| L | 180Embossed Tape | 3000 |

| Mass (typ.) | |
|-------------|--------|
| 1 piece | 0.034g |

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Specifications

| | |
|--|---------------------------|
| L size | 3.0±0.1mm |
| W size | 3.0±0.1mm |
| T size | 0.9±0.1mm |
| Size code inch (mm) | 1212 (3030) |
| Inductance | 220μH±20% |
| Inductance Test Frequency | 1MHz |
| Rated current (Isat) (Based on Inductance change) | 120mA |
| Rated current (Itemp) (Based on Temperature rise) | 150mA(Ambient temp.85°C) |
| Max. of DC resistance | 9Ω |
| DC resistance | 7.5Ω±20% |
| Operating Temperature Range (Self-temperature rise is included) | -40°C to 105°C |
| Operating Temperature Range(Self-temperature rise is not included) | -40°C to 85°C |
| Class of magnetic shield | Shielded (Magnetic Resin) |
| Self resonance frequency (min.) | 2MHz |
| Brand | Murata |
| Series | LQH3NPN_GR |

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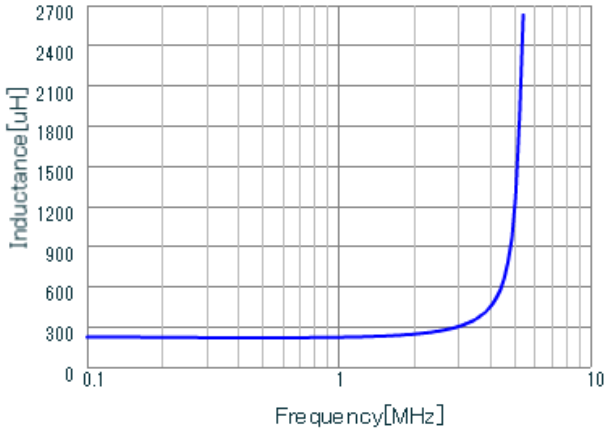
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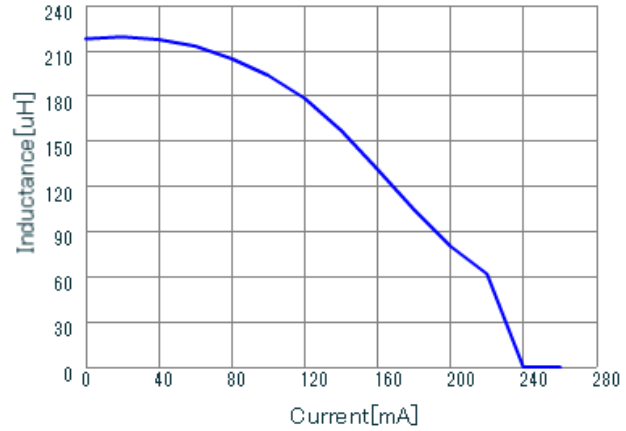
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Characteristic Data

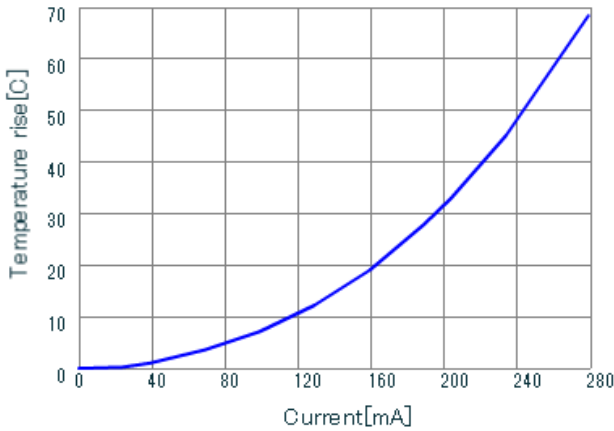


LQH3NPN221MGR L



LQH3NPN221MGR DC-Bias, 20

Inductance - Frequency Characteristics



LQH3NPN221MGR DT_Current

Impedance - Current Characteristics

Temperature Increase Characteristic

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