

# LQH3NPN470MGR#

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

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



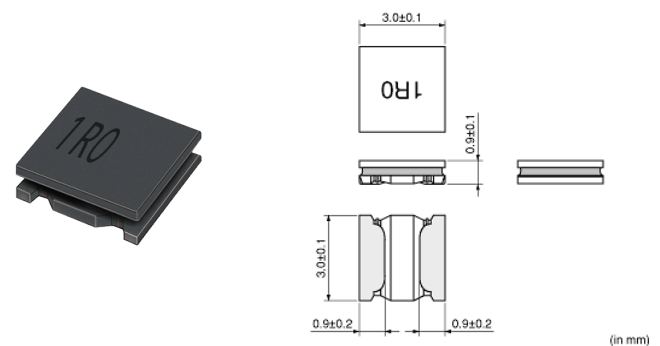
< List of part numbers with package codes >

LQH3NPN470MGRK LQH3NPN470MGRL

## 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, inductance will be within  $\pm 30\%$  of initial inductance value range. Keep the temperature (ambient temperature plus self-generation of heat) under  $125^{\circ}\text{C}$ . When rated current is applied to the products, temperature rise caused by self-generated heat shall be limited to  $40^{\circ}\text{C}$  max. When rated current is applied to the products, temperature rise caused by self-generated heat shall be limited to  $20^{\circ}\text{C}$  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	47μH±20%
Inductance Test Frequency	1MHz
Rated current (Isat) (Based on Inductance change)	260mA
Rated current (Itemp) (Based on Temperature rise)	460mA(Ambient temp.85°C) 270mA(Ambient temp.105°C)
Max. of DC resistance	1.68Ω
DC resistance	1.4Ω±20%
Operating Temperature Range (Self-temperature rise is included)	-40°C to 125°C
Operating Temperature Range(Self-temperature rise is not included)	-40°C to 105°C
Class of magnetic shield	Shielded (Magnetic Resin)
Self resonance frequency (min.)	5MHz
Brand	Murata
Series	LQH3NPN_GR

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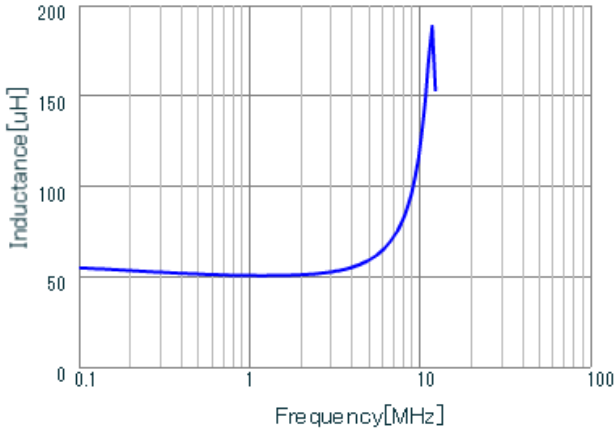
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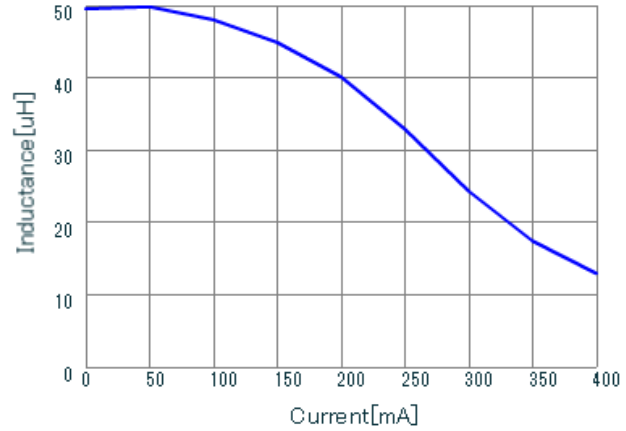
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## Characteristic Data



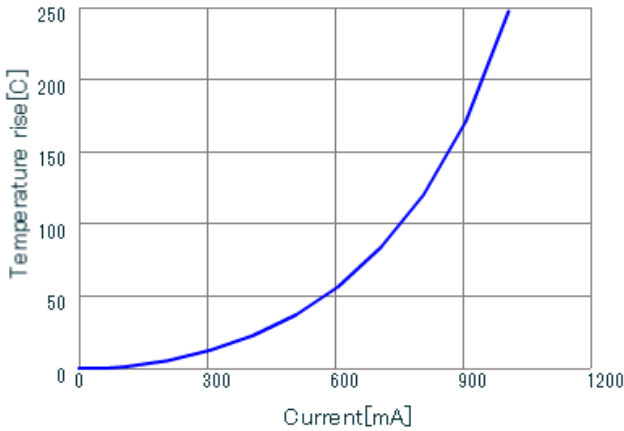
LQH3NPN470MGR L



LQH3NPN470MGR DC-Bias, 20

### Inductance - Frequency Characteristics

### Impedance - Current Characteristics



LQH3NPN470MGR DT\_Current

### Temperature Increase Characteristic

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