

# LQM2HPN3R3MG0#

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

● In Production

Multilayer type Inductor for Power Lines

## LQM2HPN3R3MG0#

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Size Code 2520 (1008) in mm (in inch), 1.0mm max. Thickness

LQM2HPN3R3MG0L, LQM2HPN3R3MG0B

### Applications

Unsuitable Applications	Please be sure to read and comply with these " <u>Precautions for use</u> ".
Specific Applications	<u>Consumer equipment, Industrial equipment except for transportation &amp; facility &amp; energy equipment, Medical equipment [GHTF A/B/C] except for implant &amp; surgery &amp; auto injector</u>  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.
Recommended Applications	Consumer equipment

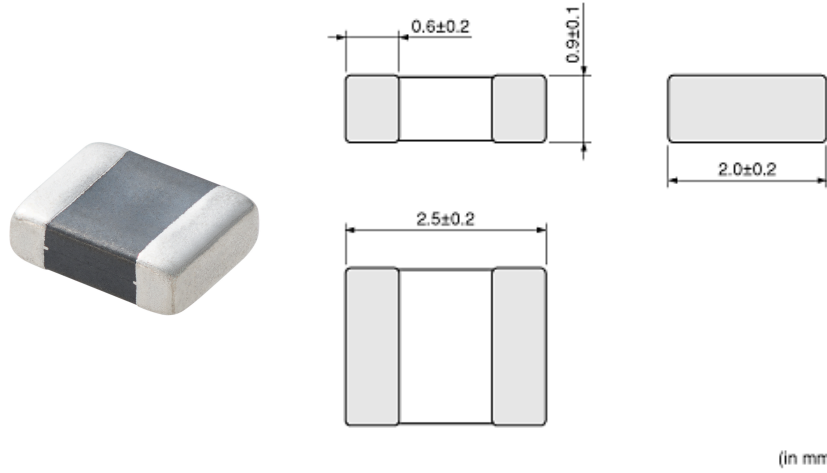
### Attention

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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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## Appearance & Shape



Length	2.5mm ±0.2mm
Width	2mm ±0.2mm
Thickness	0.9mm ±0.1mm
Size code in mm(inch)	2520/1008

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## Specifications

Inductance	3.3μH ±20%
Inductance Test Frequency	1MHz
Rated Current (Temperature Rise) / Max.	1.2A
Rated Current (Temperature Rise) / Max.(at 85°C)	1.2A
Rated Current (Temperature Rise) / Max.(at 125°C)	0.9A
DC Resistance(max.)	0.125Ω
DC Resistance	0.1Ω Typ.
Self-resonant frequency	30MHz
Operating Temperature	-55 ~ 125°C
Type of magnetic shield	Shielded (Ferrite Core)
Series	LQM2HPN_G0
Brand	Murata
Soldering Support	Reflow soldering,Flow soldering

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## Notices

Please consider 'Notice (Rating).'

When rated current is applied to the products, the temperature rise caused by self-generated heat shall be limited to 40°C max.

## References

Packaging	Specifications 	Standard Packing Quantity
L	180Embossed Tape	3000
B	Bulk(Bag)	1000

Mass(Typ.)	
1 piece	0.022g

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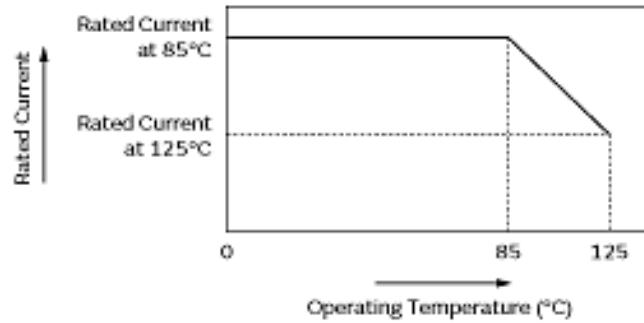
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## Notice For General

In operating temperatures exceeding +85°C, derating of current is necessary for this series.  
Please apply the derating curve shown in the chart according to the operating temperature.

### Derating of Rated Current



### Attention

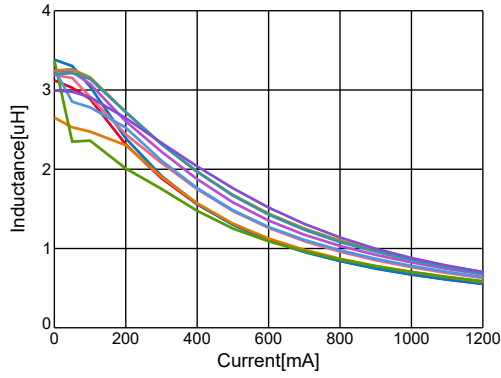
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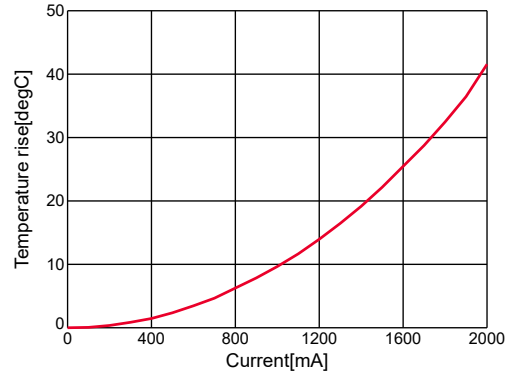
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## Basic

### L-Current



### Temp.rise



- LQM2HPN3R3MG0#,L-Current,-55degC
- LQM2HPN3R3MG0#,L-Current,-40degC
- LQM2HPN3R3MG0#,L-Current,-20degC
- LQM2HPN3R3MG0#,L-Current,0degC
- LQM2HPN3R3MG0#,L-Current,20degC
- LQM2HPN3R3MG0#,L-Current,40degC
- LQM2HPN3R3MG0#,L-Current,60degC
- LQM2HPN3R3MG0#,L-Current,85degC
- LQM2HPN3R3MG0#,L-Current,105degC
- LQM2HPN3R3MG0#,L-Current,125degC

- LQM2HPN3R3MG0#,Temp. rise,

### Attention

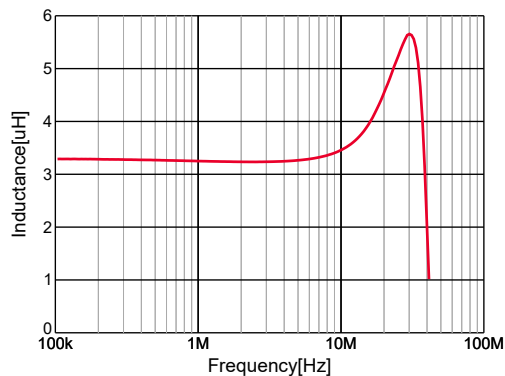
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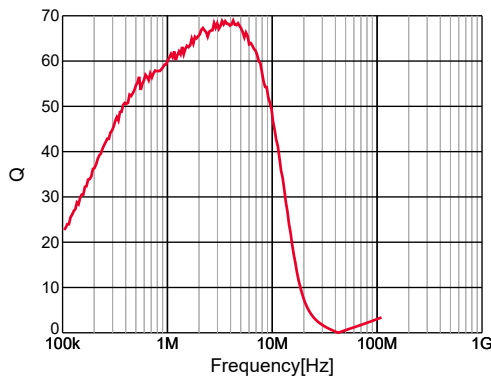
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## Frequency Characteristic

L



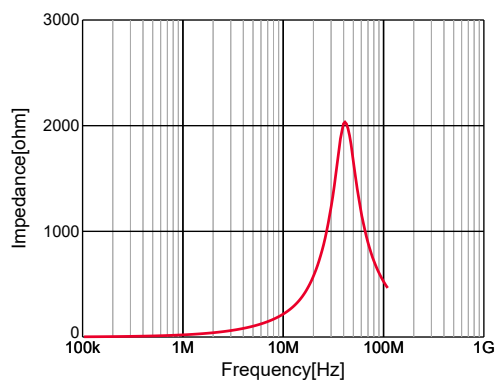
Q



LQM2HPN3R3MG0#,L,

LQM2HPN3R3MG0#,Q,

|Z|



LQM2HPN3R3MG0#,|Z|,

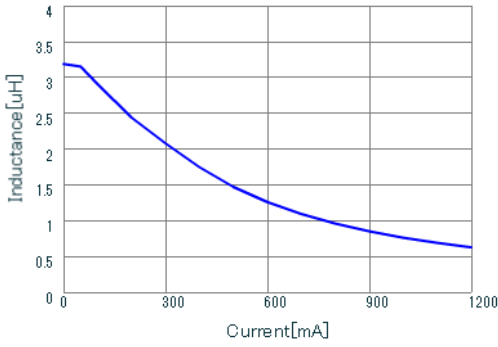
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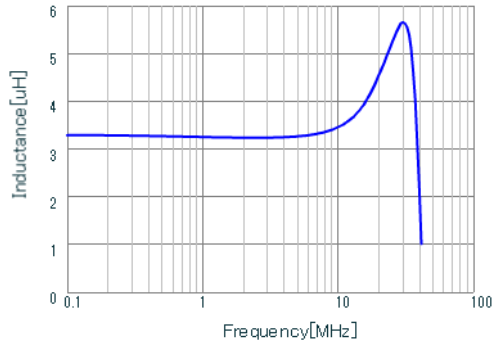
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## Product Data



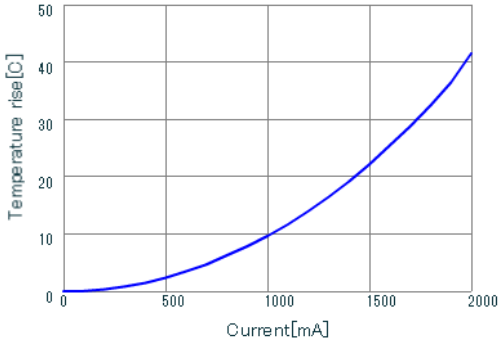
LQM2HPN3R3MG0 DC-Bias, 20

Impedance - Current Characteristics



LQM2HPN3R3MG0 L

Inductance - Frequency Characteristics



LQM2HPN3R3MG0 DT\_Current

Temperature Increase Characteristic

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