

LQM2HPN4R7MG0#

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

● In Production

Multilayer type Inductor for Power Lines

LQM2HPN4R7MG0#

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

LQM2HPN4R7MG0L, LQM2HPN4R7MG0B

Attention

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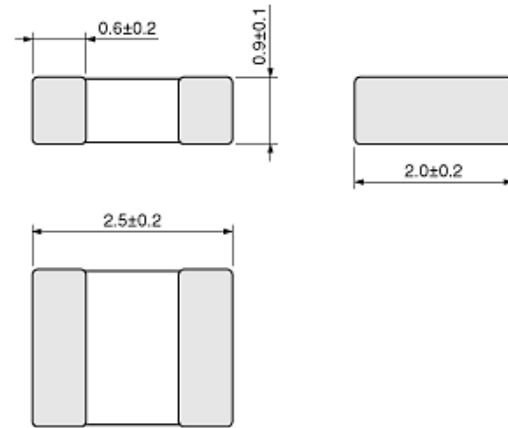
Applications

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 & facility & energy equipment,Medical equipment [GHTF A/B/C] except for implant & surgery & 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

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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	4.7μH ±20%
Inductance Test Frequency	1MHz
Rated Current (Temperature Rise) / Max.	1.1A
Rated Current (Temperature Rise) / Max.(at 85℃)	1.1A
Rated Current (Temperature Rise) / Max.(at 125℃)	0.82A
DC Resistance(max.)	0.138Ω
DC Resistance	0.11Ω Typ.
Self-resonant frequency(min.)	25MHz
Operating Temperature	-55 ~ 125℃
Type of magnetic shield	Shielded (Ferrite Core)
Series	LQM2HPN_GO
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.

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References

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

Mass(Typ.)	
1 piece	0.022g

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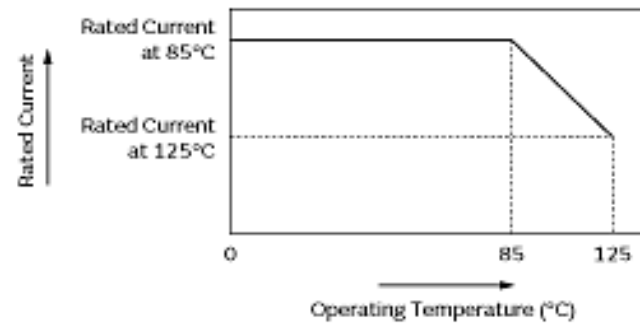
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Notice For General

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

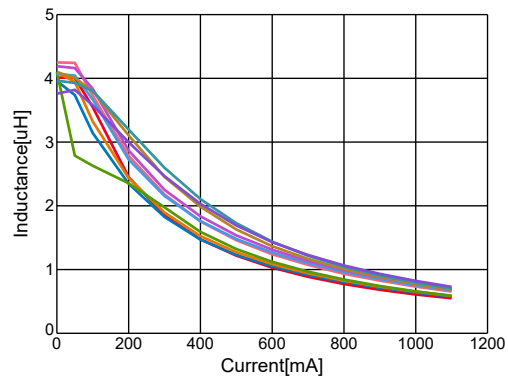
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Basic

L-Current



LQM2HPN4R7MG0#,L-Current,-55degC

LQM2HPN4R7MG0#,L-Current,-40degC

LQM2HPN4R7MG0#,L-Current,-20degC

LQM2HPN4R7MG0#,L-Current,0degC

LQM2HPN4R7MG0#,L-Current,20degC

LQM2HPN4R7MG0#,L-Current,40degC

LQM2HPN4R7MG0#,L-Current,60degC

LQM2HPN4R7MG0#,L-Current,85degC

LQM2HPN4R7MG0#,L-Current,105degC

LQM2HPN4R7MG0#,L-Current,125degC

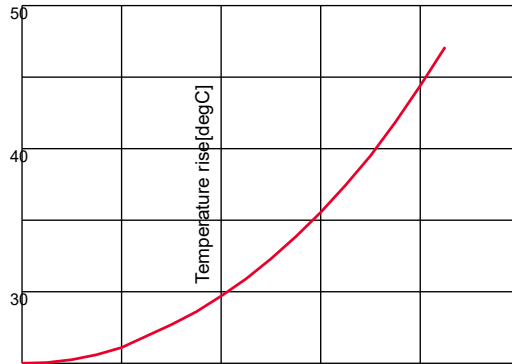
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Temp.rise



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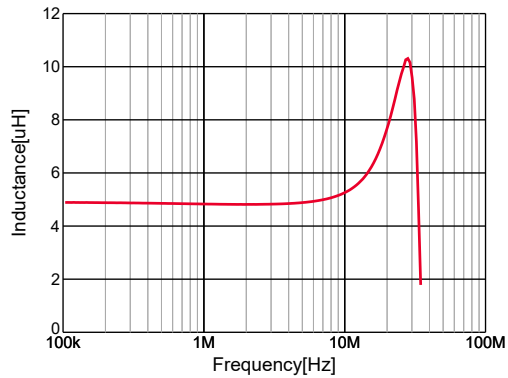
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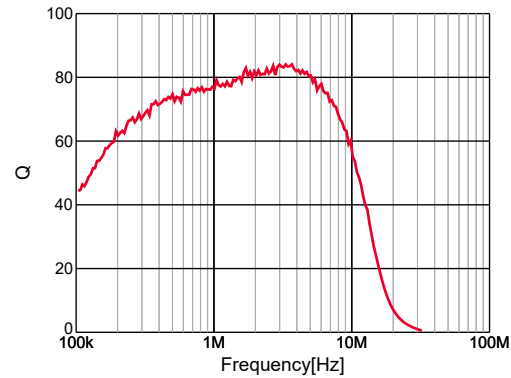
Frequency Characteristic

L



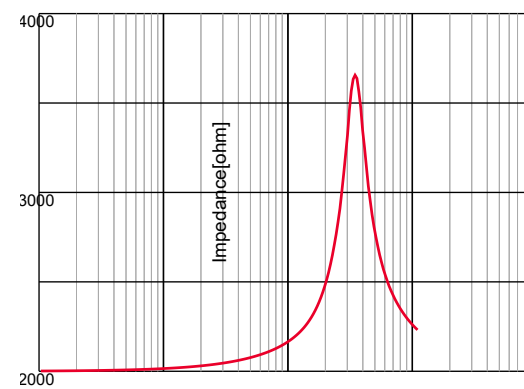
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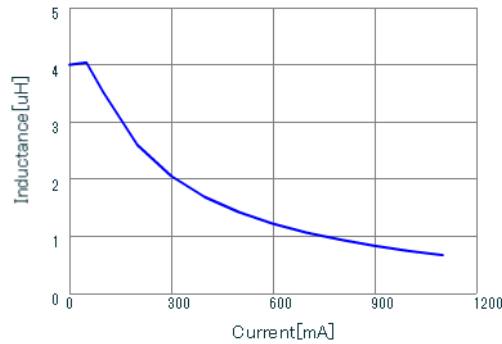
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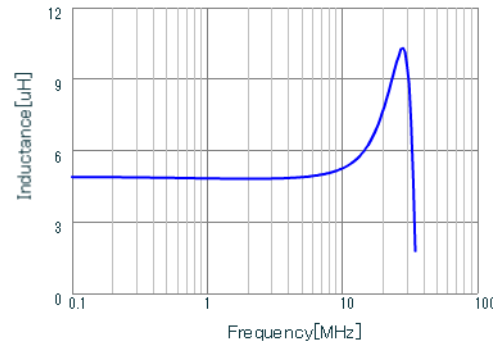
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Product Data



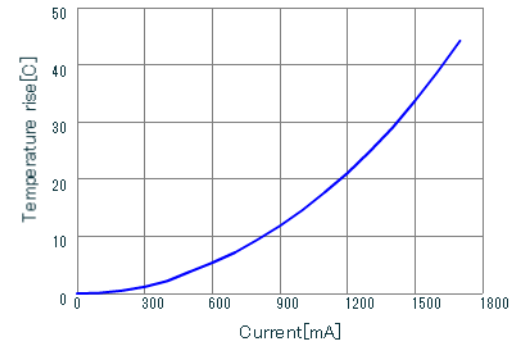
LQM2HPN4R7MG0 DC-Bias, 20

Impedance - Current Characteristics



LQM2HPN4R7MG0 L

Inductance - Frequency Characteristics



LQM2HPN4R7MG0 DT_Current

Temperature Increase Characteristic

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