

lqm21pnr47mgh#

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

High Spec Type (Low DC Resistance / Good Bias Current Characteristics Type)

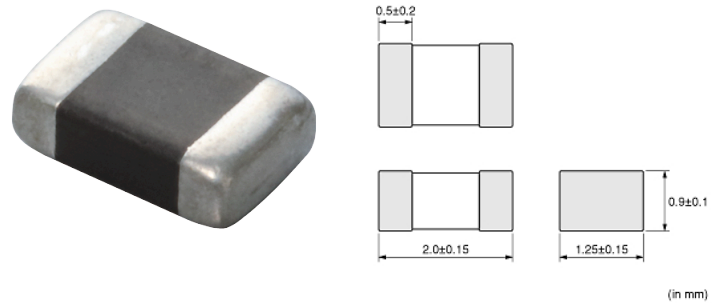


< List of part numbers with package codes >
LQM21PNR47MGHB LQM21PNR47MGHL

Applications

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

Appearance & Shape



Notices

When rated current is applied to the products, inductance will be within $\pm 30\%$ of initial inductance value range. When rated current is applied to the products, the temperature rise caused by self-generated heat shall be limited to 40°C max. Keep the temperature (ambient temperature plus self-generation of heat) under 125°C.

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
B	Bulk(Bag)	1000
L	180Embossed Tape	3000

Mass (typ.)	
1 piece	0.012g

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Specifications

L size	2.0±0.15mm
W size	1.25±0.15mm
T size	0.9±0.1mm
Size code inch (mm)	0805 (2012)
Inductance	0.47μH±20%
Inductance Test Frequency	1MHz
Rated current (Isat) (Based on Inductance change)	1.8A(Max) / 2.4A(Typ.)
Rated current (Itemp) (Based on Temperature rise)	2.4A(Max) / 3.1A(Typ.)
Max. of DC resistance	0.05Ω
DC resistance	0.04Ω(Typ.)
Class of magnetic shield	Shielded (Ferrite Core)
Self resonance frequency (min.)	80MHz
Brand	Murata
Operating Temperature Range	-40°C to 85°C
Series	LQM21PN_GH

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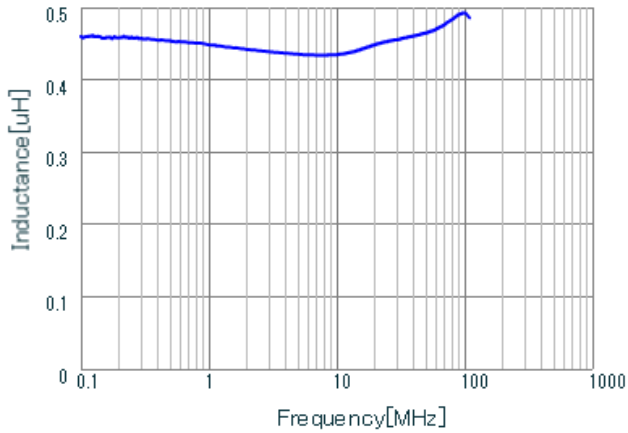
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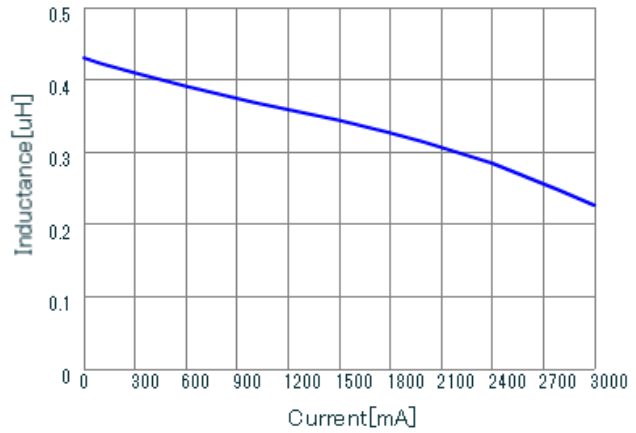
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Characteristic Data



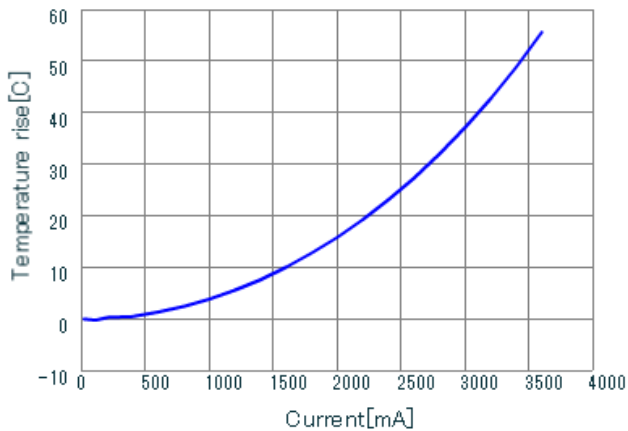
LQM21PNR47MGH L



LQM21PNR47MGH DC-Bias, 20

Inductance - Frequency Characteristics

Impedance - Current Characteristics



LQM21PNR47MGH DT_Current

Temperature Increase Characteristic

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