

LQM18PHR47MFR#

"#" indicates a package specification code.

Low DC Resistance Type



< List of part numbers with package codes >

LQM18PHR47MFRB LQM18PHR47MFR L

Applications

Unsuitable Applications	Please be sure to read and comply with these "Precautions for use."
Specific Applications	Consumer equipment, Automotive infotainment/comfort equipment, Automotive powertrain/safety equipment, Medical equipment [GHTF A/B/C] except for implant & operation & auto-dispenser equipment, 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.

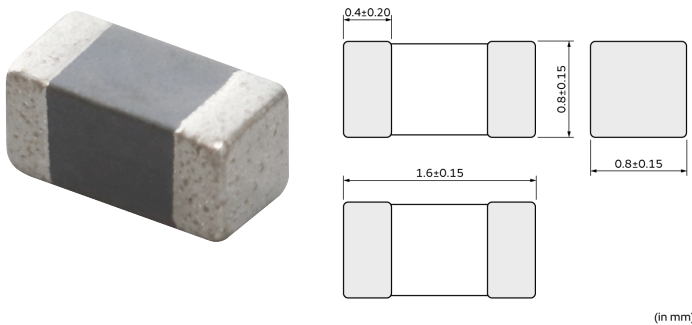
Notices

Please consider 'Notice (Rating)'. When applied Rated current to the Products, Inductance will be within $\pm 30\%$ of initial inductance value range. When applied Rated current to the Products, temperature rise caused by self-generated heat shall be limited to 40°C max.

References

Packaging	Specifications	Standard Packing Quantity
B	Bulk(Bag)	1000
L	180Embossed Tape	4000

Appearance & Shape



Mass (typ.)	
1 piece	0.005g

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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Specifications

L size	1.6±0.15mm
W size	0.8±0.15mm
T size	0.8±0.15mm
Size code inch (mm)	0603 (1608)
Inductance	0.47μH±20%
Inductance Test Frequency	1MHz
Rated current (Isat) (Based on Inductance change)	1200mA
Rated current (Itemp) (Based on Temperature rise)	1100mA(Ambient temp.85°C) 730mA(Ambient temp.125°C) 10mA(Ambient temp.150°C)
Max. of DC resistance	0.188Ω
Class of magnetic shield	Ferrite Core
Self resonance frequency (min.)	100MHz
Brand	Murata
DC Resistance Intermediate Values	0.15Ω
Operating Temperature Range	-55°C to 150°C
Series	LQM18PH_FR

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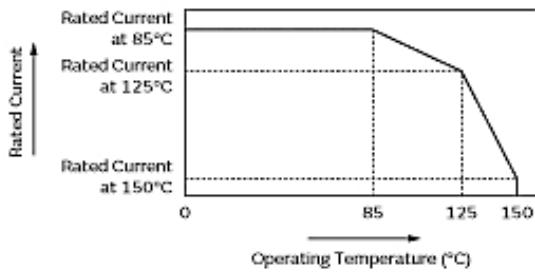
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Notice For General

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



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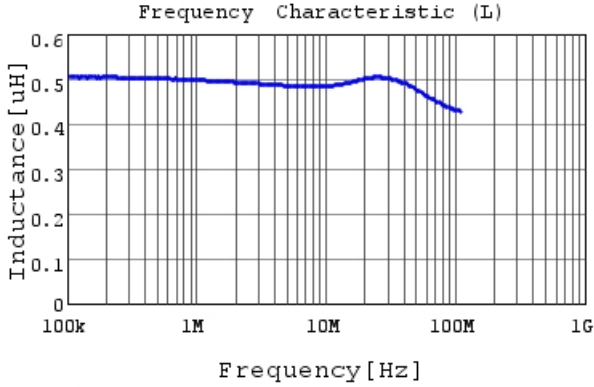
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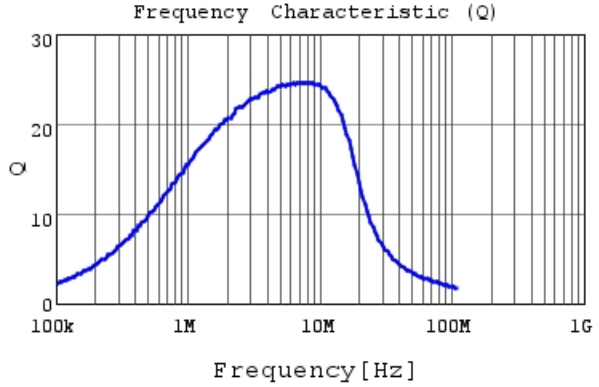


Characteristic Data

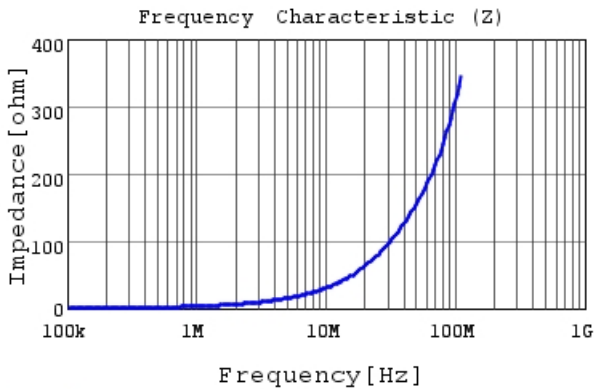
The charts below may show another part number which shares its characteristics.



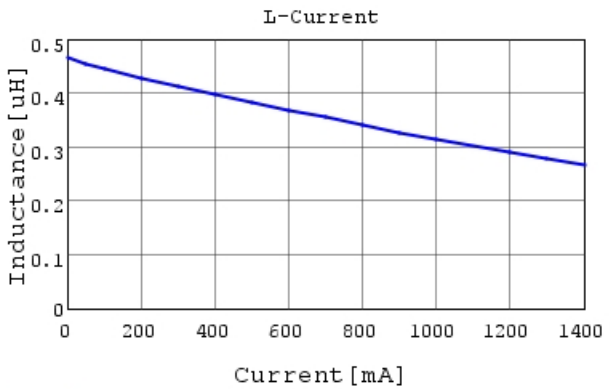
LQM18PHR47MFR L



LQM18PHR47MFR Q



LQM18PHR47MFR |Z|



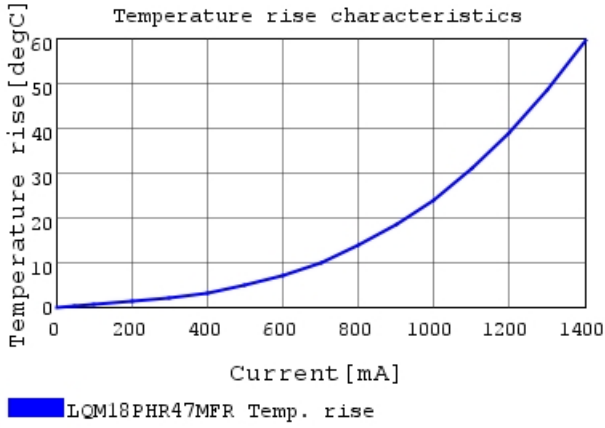
LQM18PHR47MFR L-Current 20degC

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