

# LQM21DH100M70#

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

● In Production

Multilayer type Inductor for Power Lines for Automotive

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Bias Current Characteristics Improved

LQM21DH100M70L, LQM21DH100M70B

### Applications

Unsuitable Applications	Please be sure to read and comply with these " <u>Precautions for use</u> ".
Specific Applications	<u>Automotive infotainment/comfort equipment, Automotive powertrain/safety 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	Automotive powertrain/safety equipment, PoC [Power over Coax]

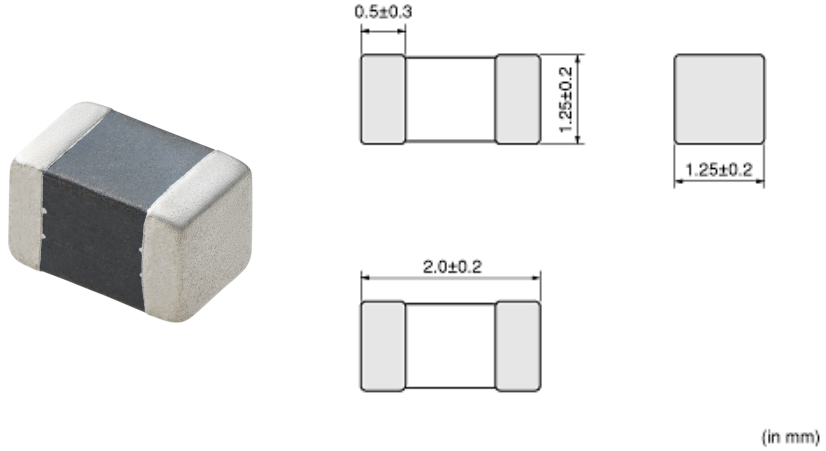
### Attention

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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## Appearance & Shape



Length	2mm ±0.2mm
Width	1.25mm ±0.2mm
Thickness	1.25mm ±0.2mm
Size code in mm(inch)	2012/0805

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## Specifications

Inductance	10μH ±20%
Inductance Test Frequency	1MHz
Rated Current (Temperature Rise) / Max.	300mA
Rated Current (Temperature Rise) / Max.(at 125°C)	300mA
Rated Current (Temperature Rise) / Max.(at 150°C)	10mA
Rated Current (L Change) / Max.	250mA
DC Resistance(max.)	0.845Ω
Self-resonant frequency(min.)	27MHz
Operating Temperature	-55 ~ 150°C
Type of magnetic shield	Shielded (Ferrite Core)
Series	LQM21DH_70
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, inductance will be within  $\pm 50\%$  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.

## References

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

Mass(Typ.)	
1 piece	0.016g

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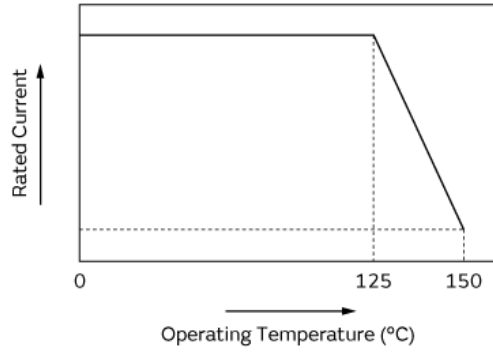
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## Notice For General

In operating temperature exceeding +125°C, derating of current is necessary for this series.  
Please apply the derating curve shown in chart according to the operating temperature.

Derating of Rated Current



### Attention

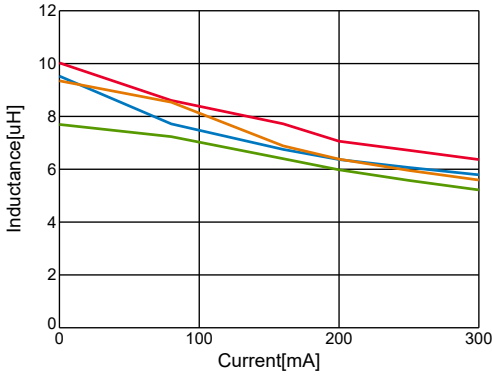
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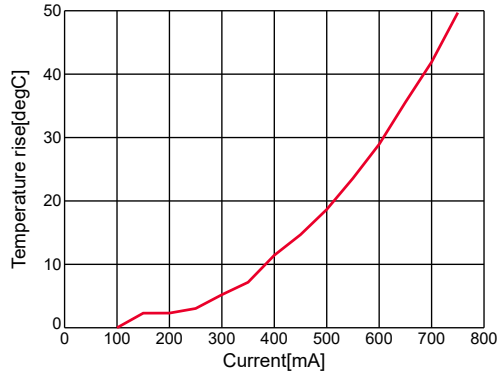
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## Basic

### L-Current



### Temp.rise



- LQM21DH100M70#,L-Current,-55degC
- LQM21DH100M70#,L-Current,20degC
- LQM21DH100M70#,L-Current,85degC
- LQM21DH100M70#,L-Current,125degC

- LQM21DH100M70#,Temp. rise,

### Attention

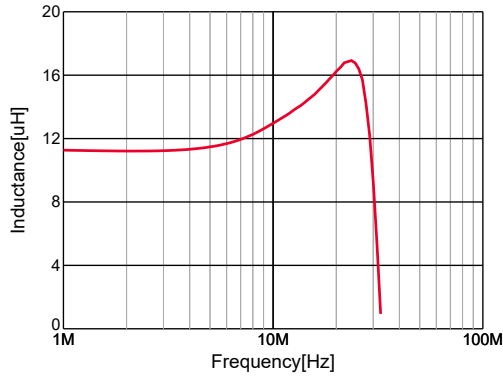
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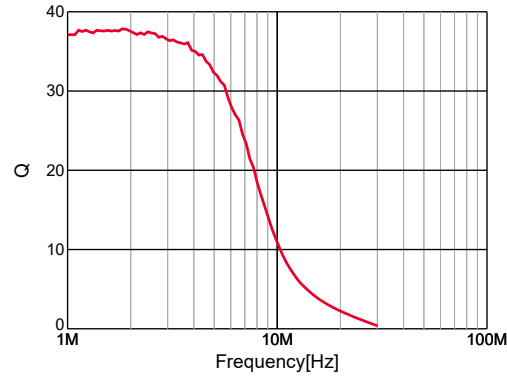
## Frequency Characteristic

L



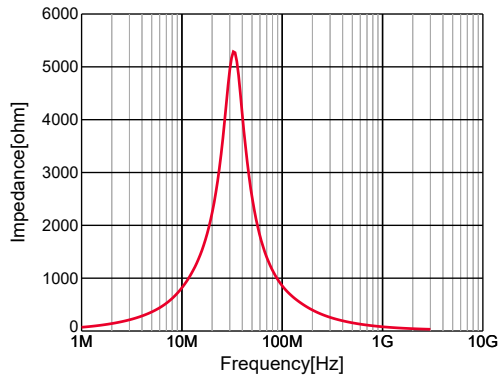
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Q



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