

LQH5BPN220MT0#

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

● In Production

Wire Wound Ferrite Inductor for Power Lines

LQH5BPN220MT0#

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Size Code 5050 (2020) in mm (in inch), 2.2mm max. Thickness

LQH5BPN220MT0L, LQH5BPN220MT0K

Attention

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 2. This datasheet has only typical specifications because there is no space for detailed specifications.
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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	5mm ±0.2mm
Width	5mm ±0.2mm
Thickness	2mm ±0.2mm
Size code in mm(inch)	5050/2020

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Specifications

Inductance	22μH ±20%
Inductance Test Frequency	100kHz
Rated Current (Temperature Rise) / Max.	1.05A
Rated Current (L Change) / Max.	1.4A
DC Resistance(max.)	0.3108Ω
DC Resistance	0.259Ω ±20%
Self-resonant frequency(min.)	15MHz
Operating Temperature	-40 ~ 125°C
Type of magnetic shield	Shielded (Magnetic Resin)
Series	LQH5BPN_T0
Brand	Murata
Soldering Support	Reflow soldering

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Notices

When rated current is applied to the products, inductance will be within $\pm 30\%$ of nominal inductance value.

When rated current is applied to the products, 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.

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References

Packaging	Specifications	Standard Packing Quantity
L	180Embossed Tape	500
K	330Embossed Tape	3000

Mass(Typ.)	
1 piece	0.22g

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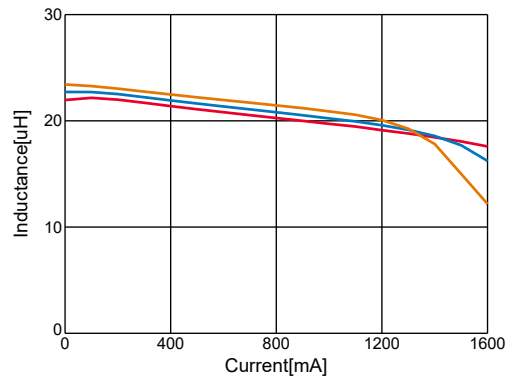
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Basic

L-Current



LQH5BPN220MT0#, L-Current, -40degC

LQH5BPN220MT0#, L-Current, 20degC

LQH5BPN220MT0#, L-Current, 85degC

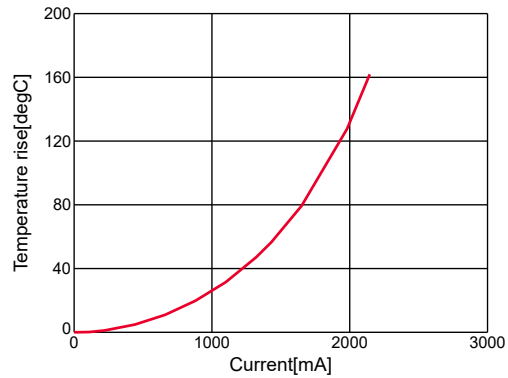
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Temp.rise



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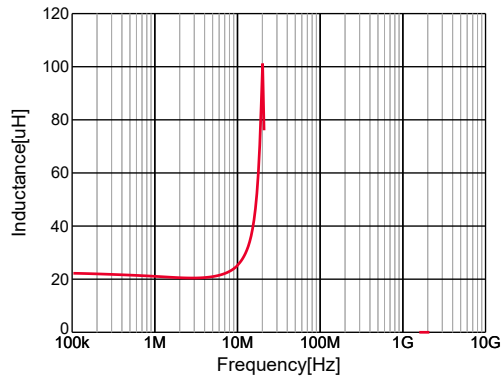
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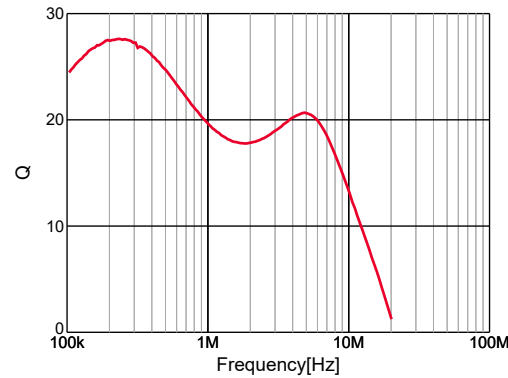
Frequency Characteristic

L



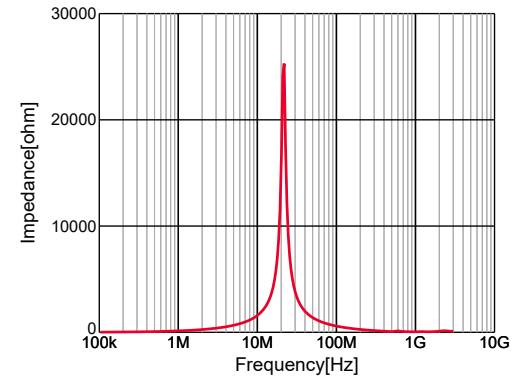
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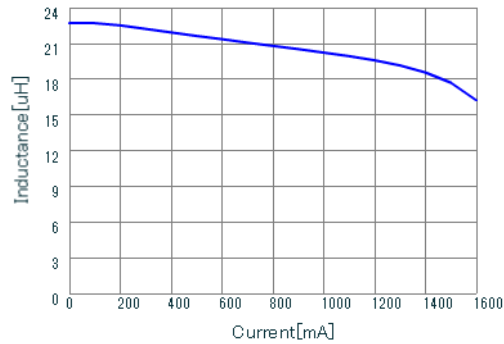
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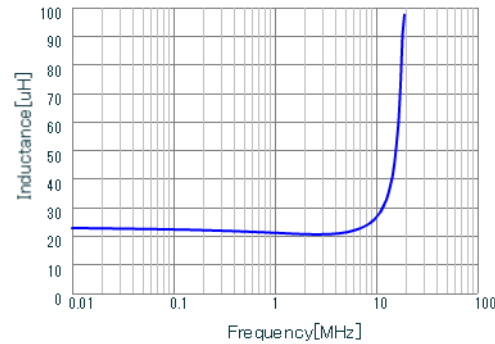
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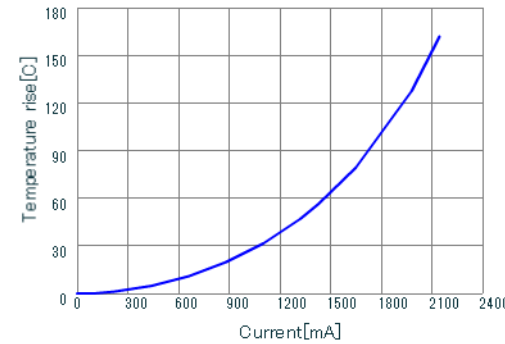
Product Data



Impedance - Current Characteristics



Inductance - Frequency Characteristics



Temperature Increase Characteristic

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