muRata
INNOVATOR IN ELECTRONICS

Product Search Data Sheet

Note: If you have not downloaded this document from our official website, please note that the information provided may not be the most current.
Please download the latest datasheet of LQH5BPZ2R7NT0# from the official website of Murata

http://www.murata.com/en-sg/products/productdetail?partno=LQH5BPZ2R7NT0%23

LQH5BPZ2R7NT0#

"#"at the end indicates the package specification code.

For Automotive (car navigation/car audio)*Remove the portion asked for high reliability ex.power train
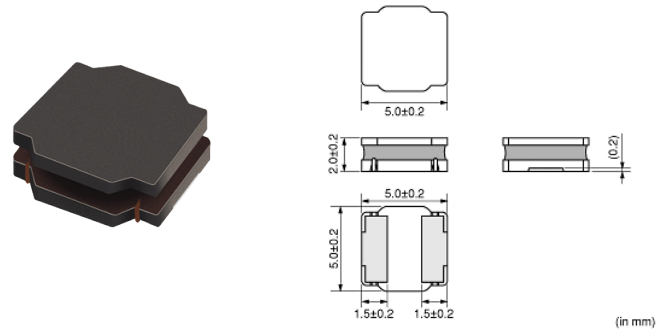
| In Production | AEC-Q200 | RoHS | REACH | 125 °C max. | Wound (Ferrite) | Reflow OK |

< List of part numbers with package codes >

LQH5BPZ2R7NT0K   LQH5BPZ2R7NT0L

Applications

Unsuitable Applications	Please be sure to read and comply with these "Precautions for use."
Specific Applications	Consumer equipment,Automotive infotainment/comfort 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	Automotive infotainment/comfort equipment

Appearance & Shape

5.0±0.2
2.0±0.2
(0.2)
5.0±0.2
5.0±0.2
1.5±0.2 1.5±0.2
(in mm)

Notices

When rated current is applied to the products, inductance will be within ±30% of initial inductance value. When rated current is applied to the products, self-temperature rise 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
K	330Embossed Tape	3000
L	180Embossed Tape	500

Mass (typ.)	
1 piece	0.22g

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Specifications

L size	5.0±0.2mm
W size	5.0±0.2mm
T size	2.0±0.2mm
Size code inch (mm)	2020 (5050)
Inductance	2.7µH±30%
Inductance Test Frequency	100kHz
Rated current (Isat) (Based on Inductance change)	3.8A(Max.) / 4.9A(Typ.)
Rated current (Itemp) (Based on Temperature rise)	Ambient temp.85℃ 2.5A (Max.) 3.3A(Typ.)Ambient temp.105℃ 1.23A(Max.)
Max. of DC resistance	0.042Ω
DC resistance	0.035Ω±20%
Operating Temperature Range (Self-temperature rise is included)	-40℃ to 125℃
Operating Temperature Range(Self-temperature rise is not included)	-40℃ to 105℃
Class of magnetic shield	Shielded (Magnetic Resin)
Self resonance frequency (min.)	50MHz
Brand	Murata
Series	LQH5BPZ_T0

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Characteristic Data

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

Frequency Characteristic (L)

LQH5BPZ2R7NT0 L

Frequency Characteristic (Q)

LQH5BPZ2R7NT0 Q

Frequency Characteristic (Z)

LQH5BPZ2R7NT0 |Z|

L-Current

LQH5BPZ2R7NT0 L-Current 20degC

LQH5BPZ2R7NT0#

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Temperature rise characteristics
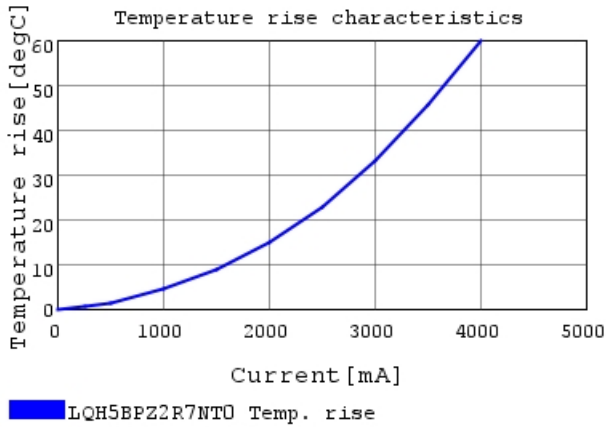

LQH5BPZ2R7NT0 Temp. rise
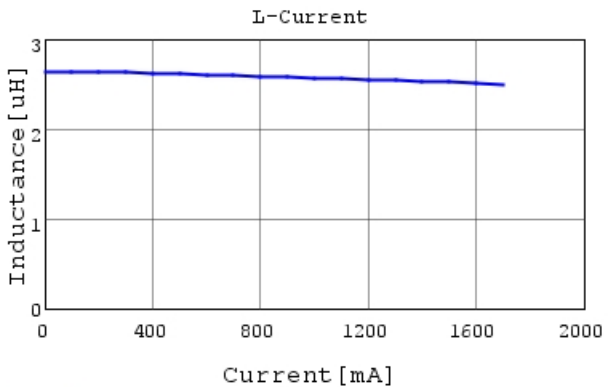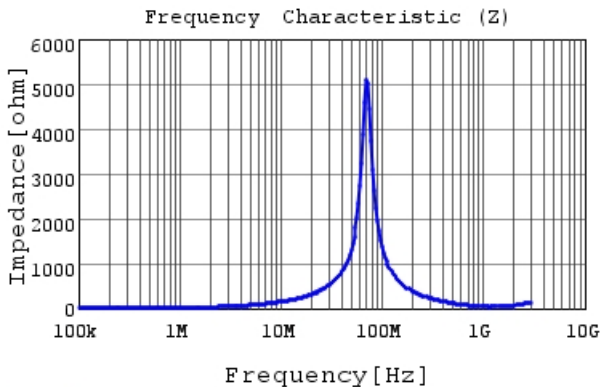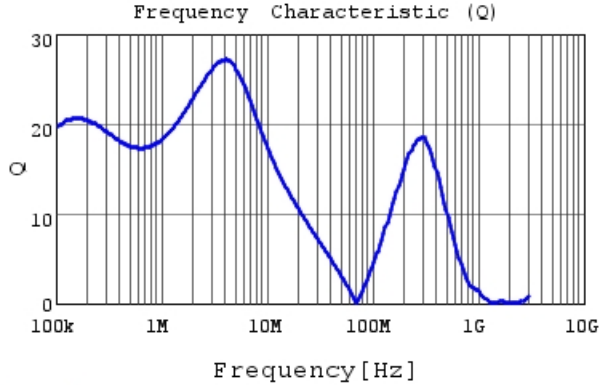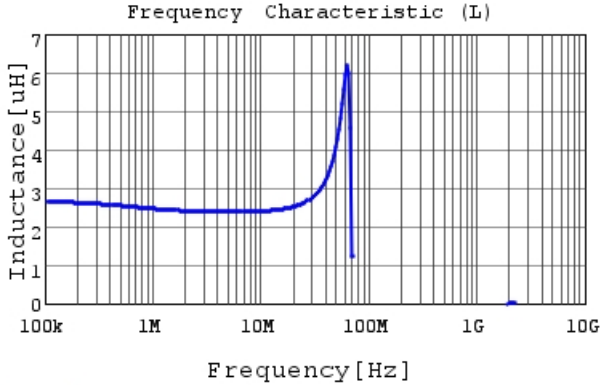
Attention

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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