

# LQH5BPN1R5NT0L

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

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



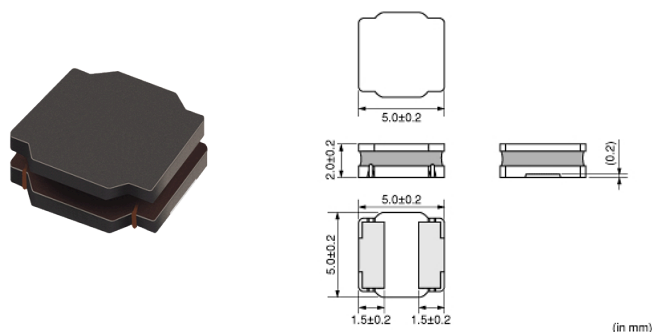
< List of part numbers with package codes >

LQH5BPN1R5NT0K      LQH5BPN1R5NT0L

## Applications

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

## Appearance & Shape



## 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.

### 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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## 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                                                          | 1.5μH±30%                 |
| Inductance Test Frequency                                           | 100kHz                    |
| Rated current (Isat) (Based on Inductance change)                   | 5.0A                      |
| Rated current (Itemp) (Based on Temperature rise)                   | 3.0A                      |
| Max. of DC resistance                                               | 0.0288Ω                   |
| DC resistance                                                       | 0.024Ω±20%                |
| Operating Temperature Range (Self-temperature rise is included)     | -40°C to 125°C            |
| Operating Temperature Range (Self-temperature rise is not included) | -40°C to 85°C             |
| Class of magnetic shield                                            | Shielded (Magnetic Resin) |
| Self resonance frequency (min.)                                     | 70MHz                     |
| Brand                                                               | Murata                    |
| Series                                                              | LQH5BPN_T0                |

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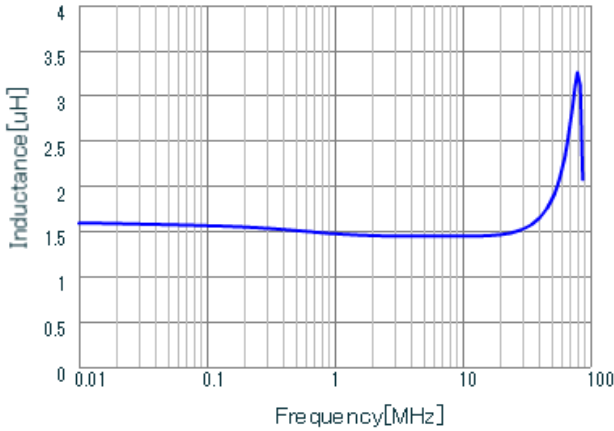
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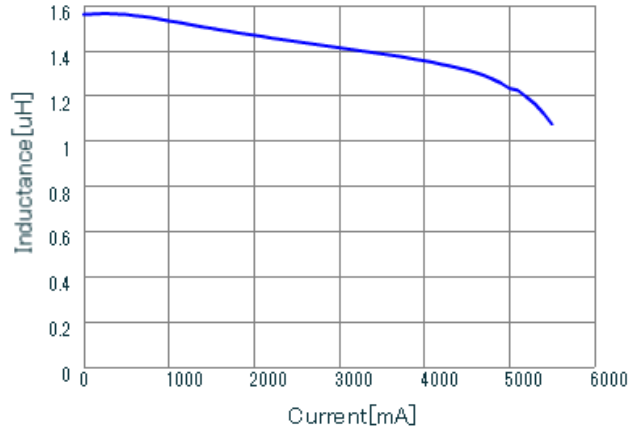
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## Characteristic Data



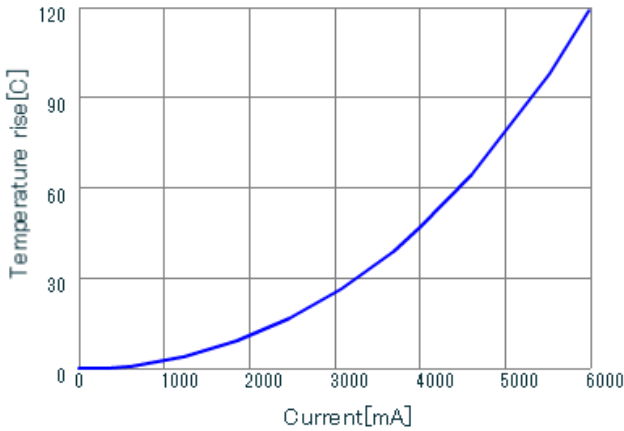
LQH5BPN1R5NT0 L



LQH5BPN1R5NT0 DC-Bias, 20

### Inductance - Frequency Characteristics

### Impedance - Current Characteristics



LQH5BPN1R5NT0 DT\_Current

### Temperature Increase Characteristic

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