

# LQH44PN6R8MGR#

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

Size Code 4040 (1515) in mm (in inch), 1.0mm max. Thickness。 Low DC resistance design



< List of part numbers with package codes >

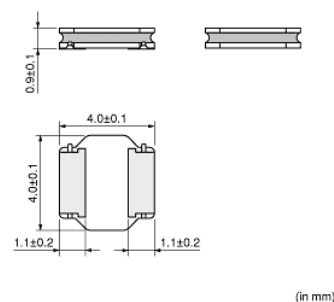
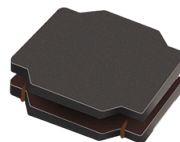
LQH44PN6R8MGRK

LQH44PN6R8MGR L

## Applications

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

## Appearance & Shape



(in mm)

### 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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## Notices

When rated current is applied to the products, inductance will be within  $\pm 30\%$  of initial inductance value range. Keep the temperature (ambient temperature plus self-generation of heat) under  $125^{\circ}\text{C}$ . When rated current is applied to the products, the self-temperature rise shall be limited to  $40^{\circ}\text{C}$  max (ambient temperature  $85^{\circ}\text{C}$ ). When rated current is applied to the products, the self-temperature rise shall be limited to  $20^{\circ}\text{C}$  max (ambient temperature  $85^{\circ}\text{C}$  to  $105^{\circ}\text{C}$ ).

## References

| Packaging | Specifications   | Standard Packing Quantity |
|-----------|------------------|---------------------------|
| K         | 330Embossed Tape | 4500                      |
| L         | 180Embossed Tape | 1000                      |

| Mass (typ.) |        |
|-------------|--------|
| 1 piece     | 0.059g |

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## Specifications

|  |  |
|--|--|
| L size   | 4.0±0.1mm  |
| W size   | 4.0±0.1mm  |
| T size   | 0.9±0.1mm  |
| Size code inch (mm)  | 1515 (4040)  |
| Inductance   | 6.8μH±20%  |
| Inductance Test Frequency  | 1MHz   |
| Rated current (Isat) (Based on Inductance change)                  | 850mA  |
| Rated current (Itemp) (Based on Temperature rise)                  | 1400mA(Ambient temp.85°C)<br>840mA(Ambient temp.105°C) |
| Max. of DC resistance  | 0.204Ω   |
| DC resistance  | 0.17Ω±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 105°C   |
| Class of magnetic shield   | Shielded (Magnetic Resin)                              |
| Self resonance frequency (min.)                                    | 15MHz  |
| Brand  | Murata   |
| Series   | LQH44PN_GR   |

### Attention

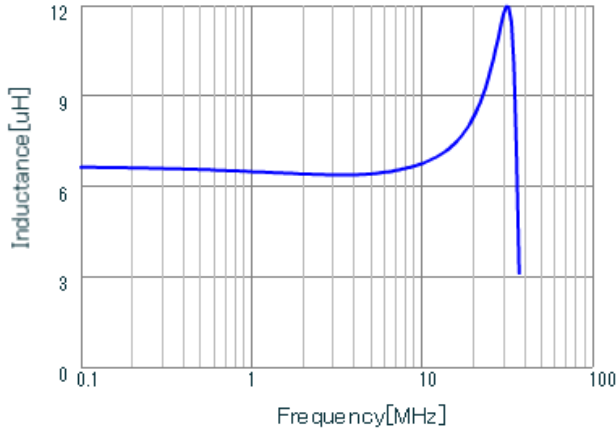
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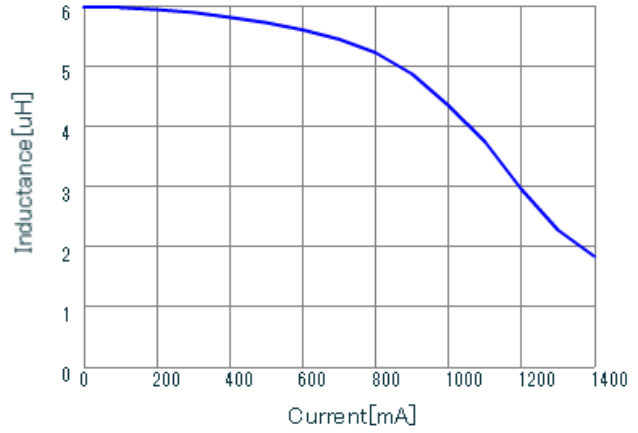
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## Characteristic Data

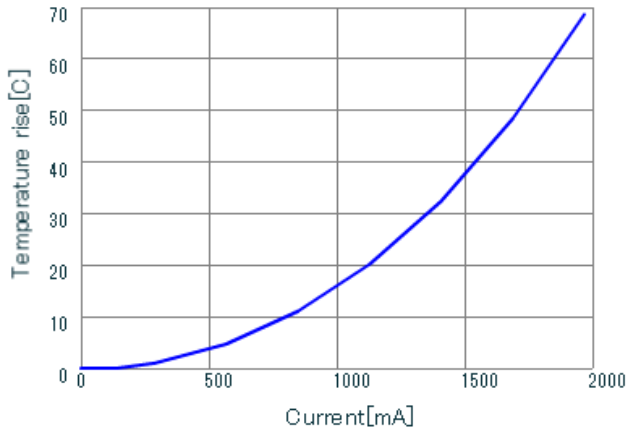


LQH44PN6R8MGR L



LQH44PN6R8MGR DC-Bias, 20

### Inductance - Frequency Characteristics



LQH44PN6R8MGR DT\_Current

### Impedance - Current Characteristics

### Temperature Increase Characteristic

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