

# LQH44PN6R8MGR#

“#” indicates a package specification code.

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

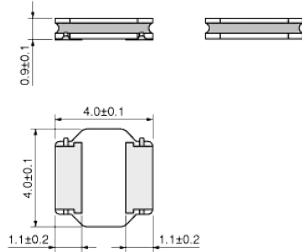
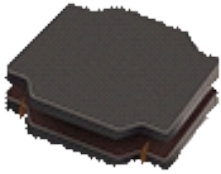


< List of part numbers with package codes >

LQH44PN6R8MGRL LQH44PN6R8MGRK

## Appearance & Shape

## Notices



(in mm)

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  $105^{\circ}\text{C}$ ).

### 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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## References

Packaging	Specifications	Minimum Order Quantity
L	180Embossed Tape	1000
K	330Embossed Tape	4500

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 (I <sub>sat</sub> ) (Based on Inductance change)	850mA
Rated current (I <sub>temp</sub> ) (Based on Temperature rise)	1400mA(Ambient temp.85°C)840mA(Ambient temp.105°C)
Max. of DC resistance	0.204Ω
Operating Temperature Range (Self-temperature rise is included)	-40°C to 125°C
Class of magnetic shield	Magnetic Resin
Self resonance frequency (min.)	15MHz
Operating Temperature Range(Self-temperature rise is not included)	-40°C to 105°C
DC Resistance Intermediate Values	0.17Ω±20%
Series	LQH44PN_GR

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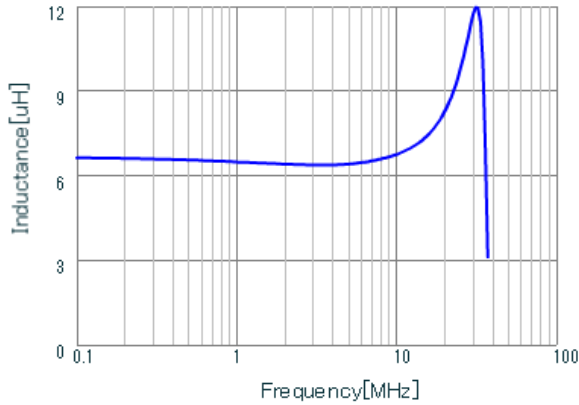
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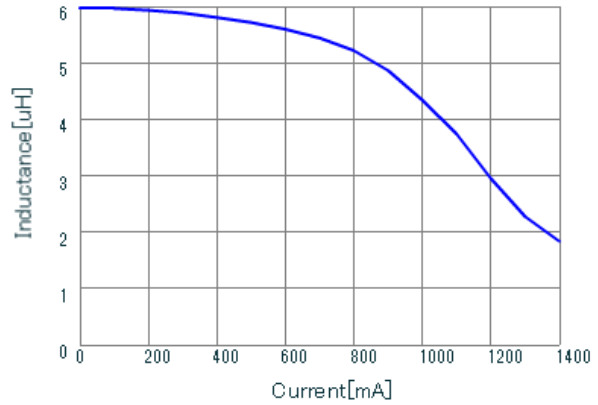
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## Product Data



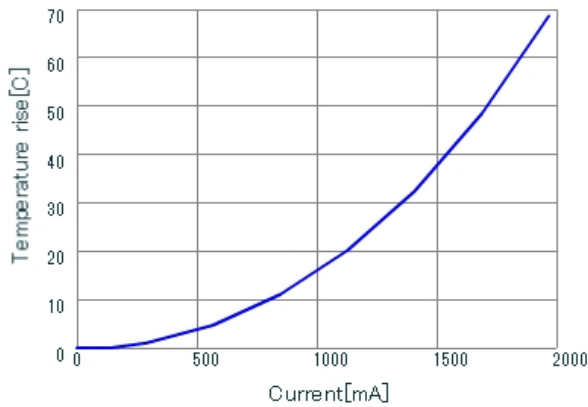
LQH44PN6R8MGR L

Inductance - Frequency Characteristics



LQH44PN6R8MGR DC-Bias, 20

Impedance - Current Characteristics



LQH44PN6R8MGR DT\_Current

Temperature Increase Characteristic

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