

# LQH3NPN560MMEL

“#” indicates a package specification code.

Size Code 3030 (1212) in mm (in inch), 1.5mm max.Thickness. high performance type.



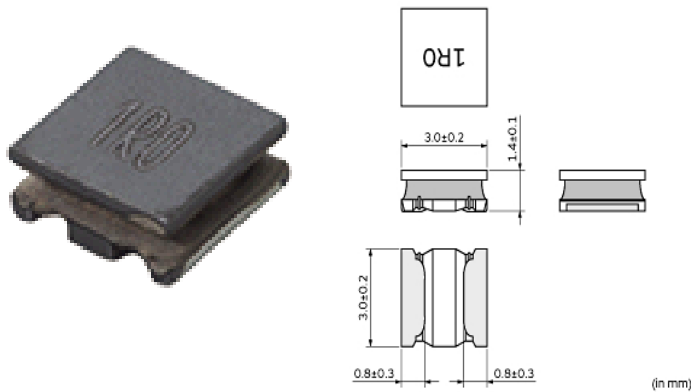
< List of part numbers with package codes >

LQH3NPN560MMEB

LQH3NPN560MMEL

LQH3NPN560MMEK

## Appearance & Shape



## References

| Packaging | Specifications   | Standard Packing Quantity |
|-----------|------------------|---------------------------|
| B         | Bulk(Bag)        | 100                       |
| L         | 180Embossed Tape | 2000                      |
| K         | 330Embossed Tape | 8000                      |

| Mass (typ.) |        |
|-------------|--------|
| 1 piece     | 0.051g |

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

### 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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## Specifications

|                                                                    |                                                       |
|--------------------------------------------------------------------|-------------------------------------------------------|
| L size                                                             | 3.0±0.2mm                                             |
| W size                                                             | 3.0±0.2mm                                             |
| T size                                                             | 1.4±0.1mm                                             |
| Size code inch (mm)                                                | 1212 (3030)                                           |
| Inductance                                                         | 56μH±20%                                              |
| Inductance Test Frequency                                          | 1MHz                                                  |
| Rated current (Isat) (Based on Inductance change)                  | 350mA                                                 |
| Rated current (Itemp) (Based on Temperature rise)                  | 500mA(Ambient temp.85°C)<br>320mA(Ambient temp.105°C) |
| Max. of DC resistance                                              | 1.2Ω                                                  |
| Operating Temperature Range (Self-temperature rise is included)    | -40°C to 125°C                                        |
| Class of magnetic shield                                           | Magnetic Resin                                        |
| Self resonance frequency (min.)                                    | 5MHz                                                  |
| Operating Temperature Range(Self-temperature rise is not included) | -40°C to 105°C                                        |
| DC Resistance Intermediate Values                                  | 1Ω±20%                                                |
| Series                                                             | LQH3NPN_ME                                            |

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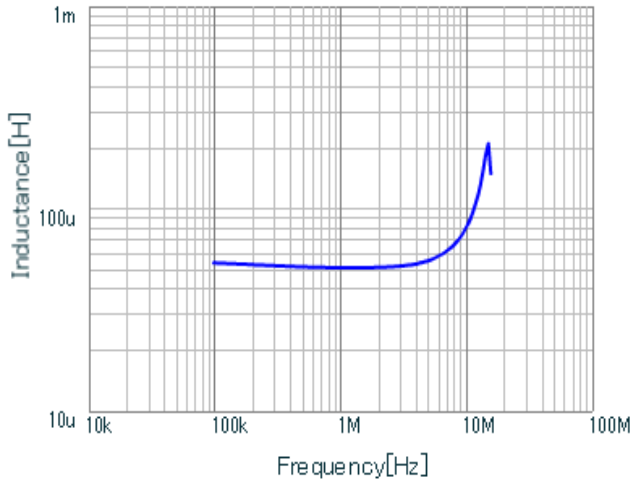
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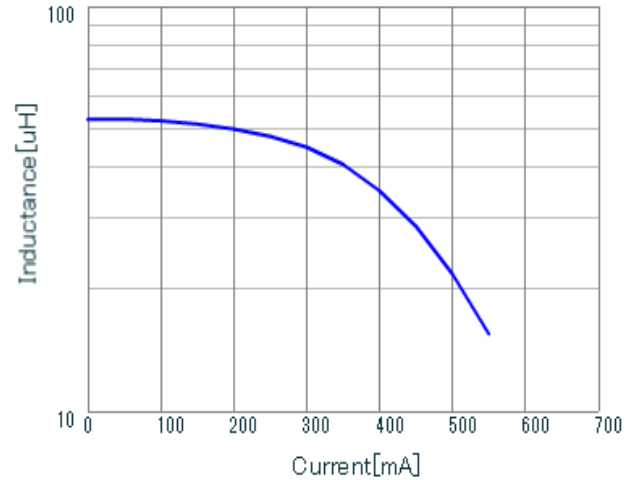
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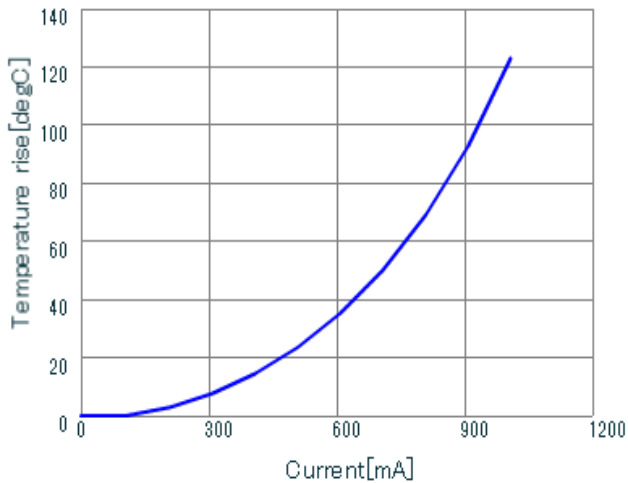
## Characteristic Data



Inductance - Frequency Characteristics



Impedance - Current Characteristics



Temperature Increase Characteristic

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