

# LQH3NPZ150MGR#

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

Size Code 3030 (1212) in mm (in inch), 1.0mm max. Thickness. Low DC Resistance Type

Discontinued

AEC-Q200

RoHS

REACH

125 °C max.

Wound (Ferrite)

Low Rdc

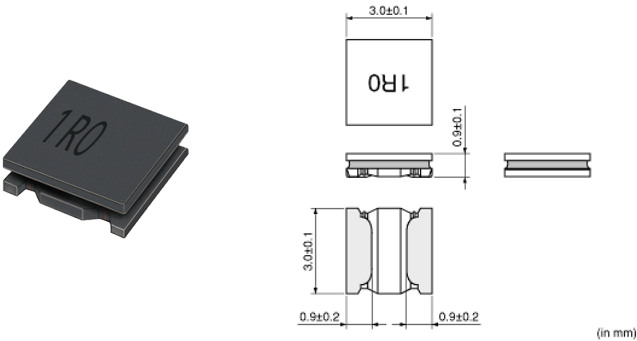
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< List of part numbers with package codes >  
LQH3NPZ150MGRL

## 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<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 | Automotive infotainment/comfort equipment                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

## Appearance & Shape



**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. When rated current is applied to the products, temperature rise caused by self-generated heat shall be limited to 40°C max (ambient temperature 85°C max). When rated current is applied to the products, temperature rise caused by self-generated heat shall be limited to 20°C max (ambient temperature 85°C to 105°C). Keep the temperature (ambient temperature plus self-generation of heat) under 125°C.

## References

| Packaging | Specifications   | Standard Packing Quantity |
|-----------|------------------|---------------------------|
| L         | 180Embossed Tape | 3000                      |

| Mass (typ.) |        |
|-------------|--------|
| 1 piece     | 0.034g |

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## Specifications

|                                                                    |                                                       |
|--------------------------------------------------------------------|-------------------------------------------------------|
| L size                                                             | 3.0±0.1mm                                             |
| W size                                                             | 3.0±0.1mm                                             |
| T size                                                             | 0.9±0.1mm                                             |
| Size code inch (mm)                                                | 1212 (3030)                                           |
| Inductance                                                         | 15μH±20%                                              |
| Inductance Test Frequency                                          | 1MHz                                                  |
| Rated current (Isat) (Based on Inductance change)                  | 480mA                                                 |
| Rated current (Itemp) (Based on Temperature rise)                  | 900mA(Ambient temp.85°C)<br>540mA(Ambient temp.105°C) |
| Max. of DC resistance                                              | 0.468Ω                                                |
| DC resistance                                                      | 0.39Ω±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                                                             | LQH3NPZ_GR                                            |

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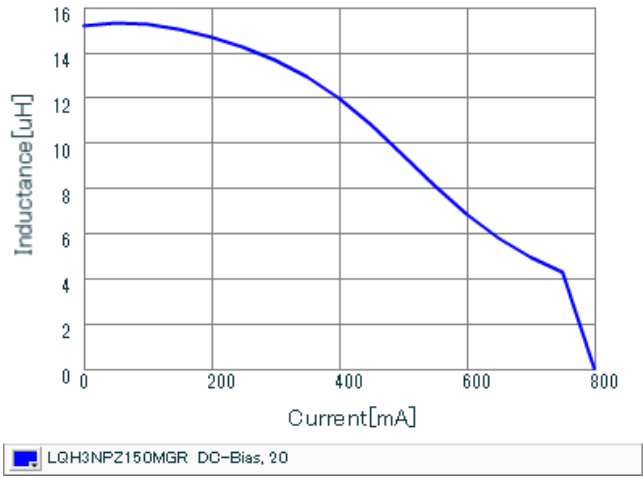
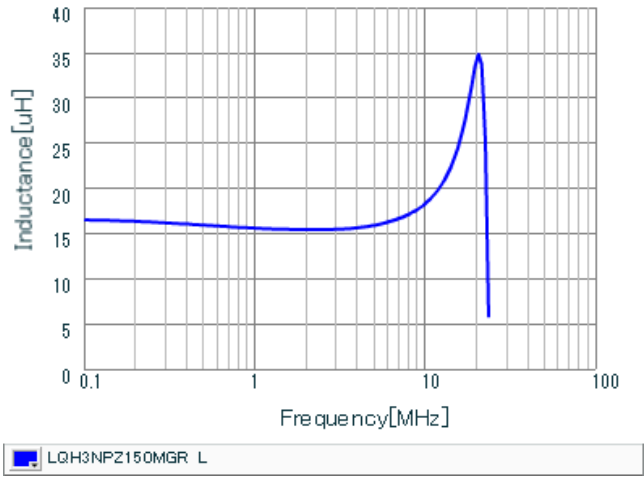
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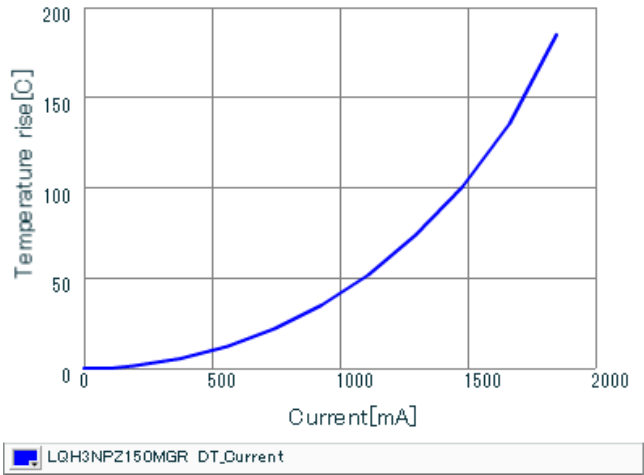
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## Characteristic Data



Inductance - Frequency Characteristics

Impedance - Current Characteristics



Temperature Increase Characteristic

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