

# LQH3NPN1R0MGR#

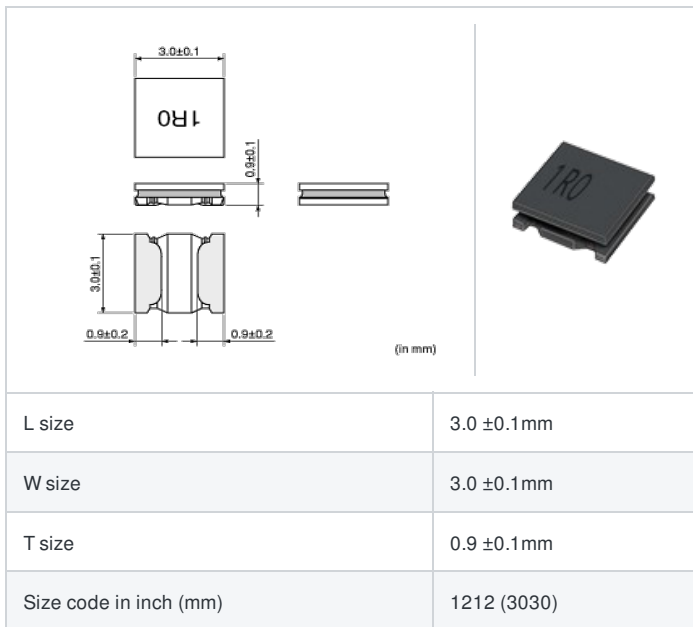
"#" indicates a package specification code.



< List of part numbers with package codes >

LQH3NPN1R0MGRL , LQH3NPN1R0MGRK

## Shape



## Notes

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 °C.  
When rated current is applied to the products, the temperature rise caused by self-generated heat shall be limited to 40 °C (at the rated current under 85 °C) or 20 °C (at the rated current under 105 °C).

## References

| Packaging code | Specifications         | Minimum quantity |
|----------------|------------------------|------------------|
| L              | φ180mm Embossed taping | 3000             |
| K              | φ330mm Embossed taping | 11000            |

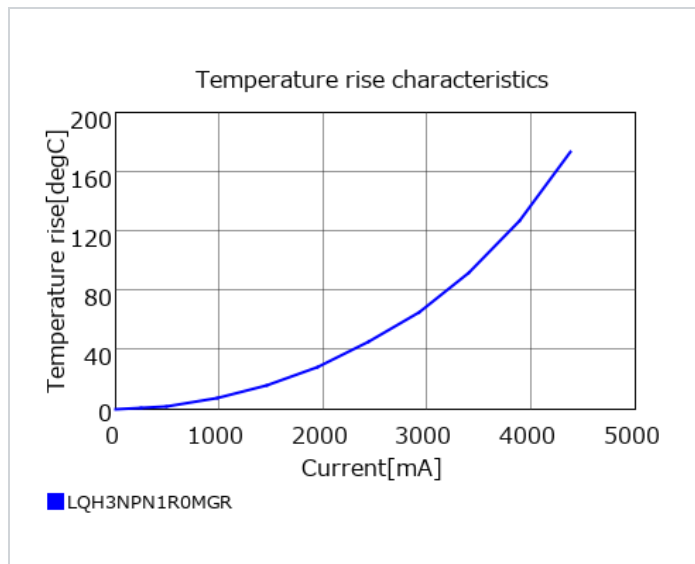
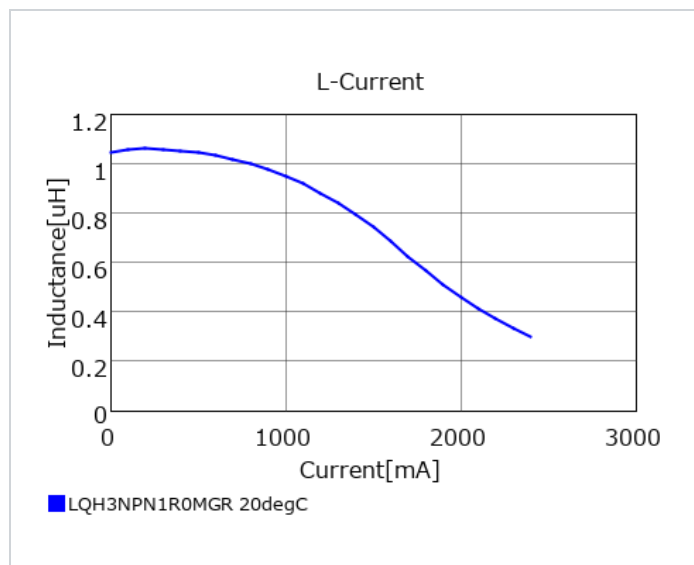
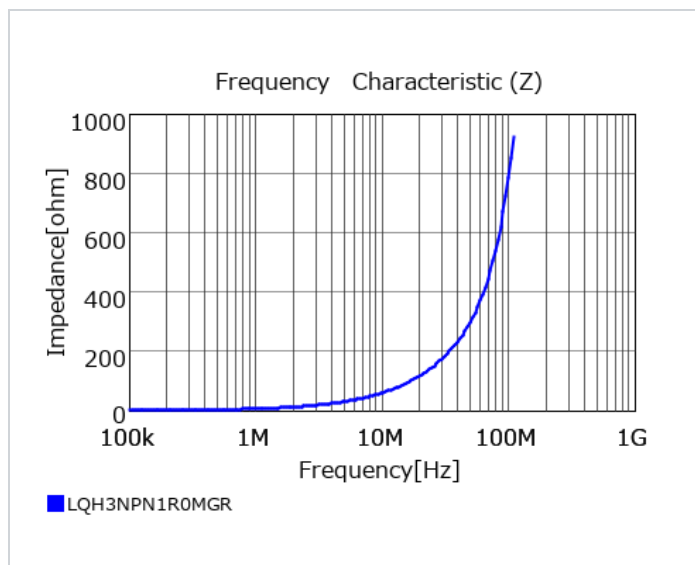
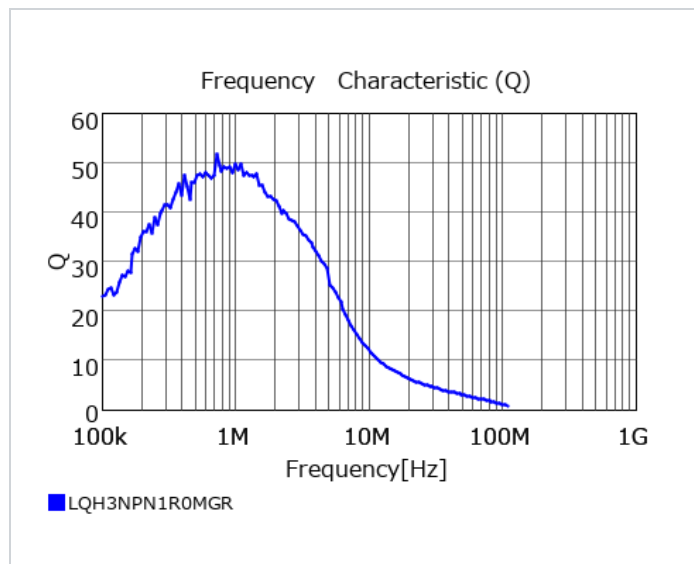
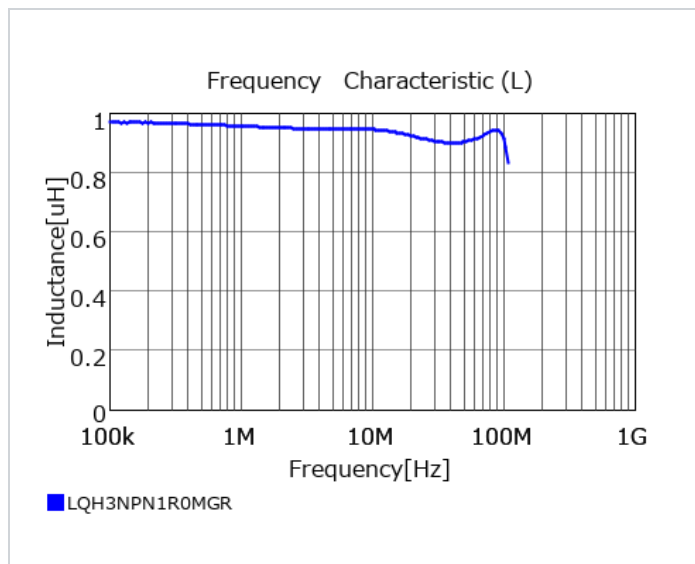
| Mass (Typ.) |        |
|-------------|--------|
| 1 piece     | 0.034g |

## Specifications

|                                                                     |                                                         |
|---------------------------------------------------------------------|---------------------------------------------------------|
| Inductance                                                          | 1.0μH $\pm 20\%$                                        |
| Inductance test frequency                                           | 1MHz                                                    |
| Rated current (Isat) (Based on Inductance change)                   | 1700mA                                                  |
| Rated current (Itemp) (Based on Temperature rise)                   | 2080mA(Ambient temp.85°C)<br>1240mA(Ambient temp.105°C) |
| Max. of DC resistance                                               | 0.0744Ω                                                 |
| Avg. of DC resistance                                               | 0.062Ω $\pm 20\%$                                       |
| Self resonance frequency (min.)                                     | 100MHz                                                  |
| 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                                            | Magnetic Resin                                          |
| Series                                                              | LQH3NPN_GR                                              |

### 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.



#### **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.