

# LQH3NPN150NJ0#

"#" indicates a package specification code.

Discontinued
General
125 °C max.
Wound (Ferrite)
Reflow OK
RoHS
REACH

Last Time Buy Date: 31 Mar 2018      Date of discontinuation: 30 Sep 2018

< List of part numbers with package codes >  
 LQH3NPN150NJ0L , LQH3NPN150NJ0K

## Shape

|                        |             |
|------------------------|-------------|
| L size                 | 3.0 ± 0.2mm |
| W size                 | 3.0 ± 0.2mm |
| T size                 | 1.1 ± 0.1mm |
| Size code in inch (mm) | 1212 (3030) |

## Notes

When rated current is applied to the products, inductance will be within ±30% of nominal inductance value.  
 When rated current is applied to the products, the temperature rise caused by self-generated heat shall be limited to 40 °C max.  
 Keep the temperature (ambient temperature plus self-generation of heat) under 125 °C.

## References

| Packaging code | Specifications         | Minimum quantity |
|----------------|------------------------|------------------|
| L              | φ180mm Embossed taping | 1000             |
| K              | φ330mm Embossed taping | 5000             |

| Mass (Typ.) |        |
|-------------|--------|
| 1 piece     | 0.045g |

## Specifications

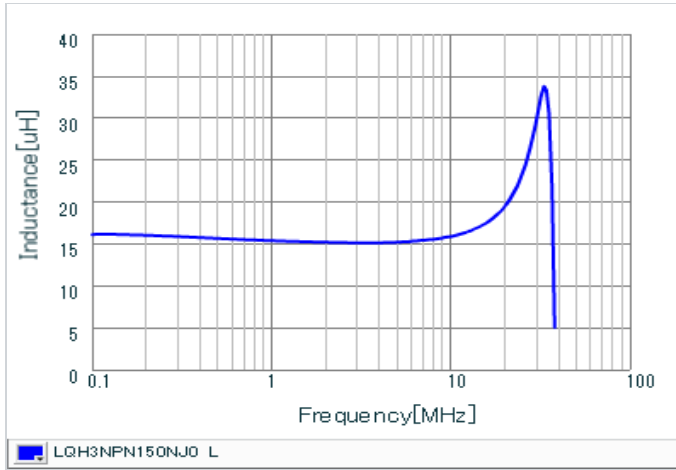
|   |                |
|---|----------------|
| Inductance  | 15μH ±30%      |
| Inductance test frequency   | 1MHz           |
| Rated current (I <sub>sat</sub> ) (Based on Inductance change)      | 440mA          |
| Rated current (I <sub>temp</sub> ) (Based on Temperature rise)      | 590mA          |
| Max. of DC resistance   | 0.528Ω         |
| Avg. of DC resistance   | 0.440Ω ±20%    |
| Self resonance frequency (min.)                                     | 30MHz          |
| 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 85°C  |
| Class of magnetic shield  | Magnetic Resin |
| Series  | LQH3NPN_J0     |

### Attention

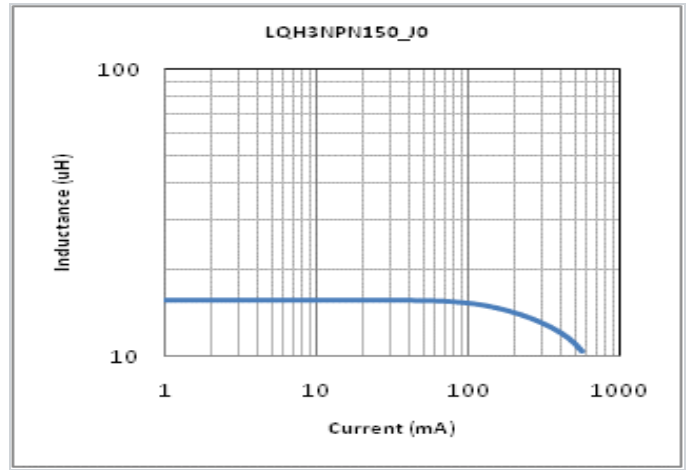
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- This datasheet has only typical specifications because there is no space for detailed specifications. Therefore, please review our product specifications or consult the approval sheet for product specifications before ordering.

**Chart of characteristic data (The charts below may show another part number which shares its characteristics.)**

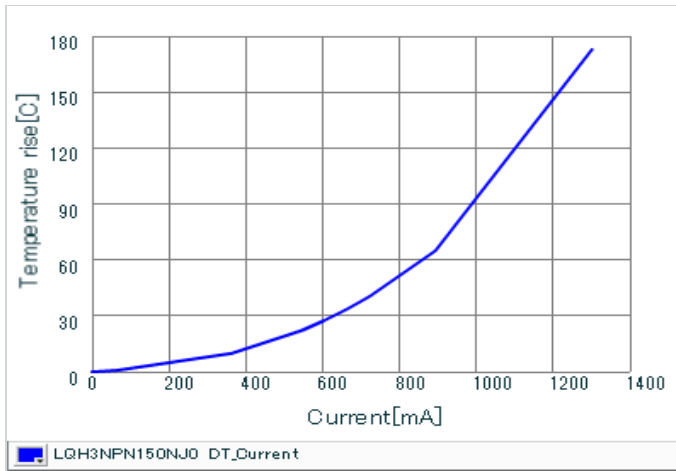
▪ Inductance-Frequency characteristics (Typ.)



▪ Inductance-Current characteristics (Typ.)



▪ Temperature rise characteristics (Typ.)



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