

# LQH3NPN220NG0#

"#" indicates a package specification code.



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

< List of part numbers with package codes >  
LQH3NPN220NG0L , LQH3NPN220NG0K

## Shape

|                        |             |
|------------------------|-------------|
|                        |             |
| L size                 | 3.0 ±0.2mm  |
| W size                 | 3.0 ±0.2mm  |
| T size                 | 0.9 ±0.1mm  |
| Size code in inch (mm) | 1212 (3030) |

## Notes

When applied Rated current to the Products, Inductance will be within  $\pm 30\%$  of nominal Inductance value.  
When applied Rated current to the Products, 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 | 1500             |
| K              | Φ330mm Embossed taping | 6000             |

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

## Specifications

|                                                                     |                 |
|---------------------------------------------------------------------|-----------------|
| Inductance                                                          | 22μH $\pm 30\%$ |
| Inductance test frequency                                           | 1MHz            |
| Rated current (Isat) (Based on Inductance change)                   | 340mA           |
| Rated current (Itemp) (Based on Temperature rise)                   | 430mA           |
| Max. of DC resistance                                               | 1.32Ω           |
| Avg. of DC resistance                                               | 1.1Ω $\pm 20\%$ |
| Self resonance frequency (min.)                                     | 25MHz           |
| Operating temperature range (Self-temperature rise is not included) | -40~85°C        |
| Class of magnetic shield                                            | Magnetic Resin  |
| Series                                                              | LQH3NPN_G0      |

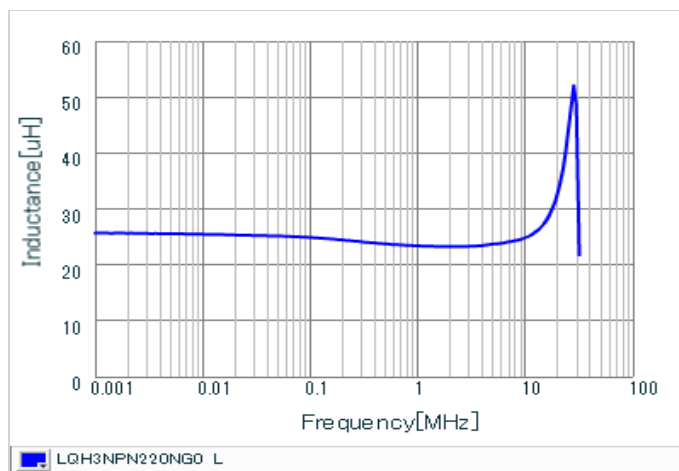
1 of 2

### Attention

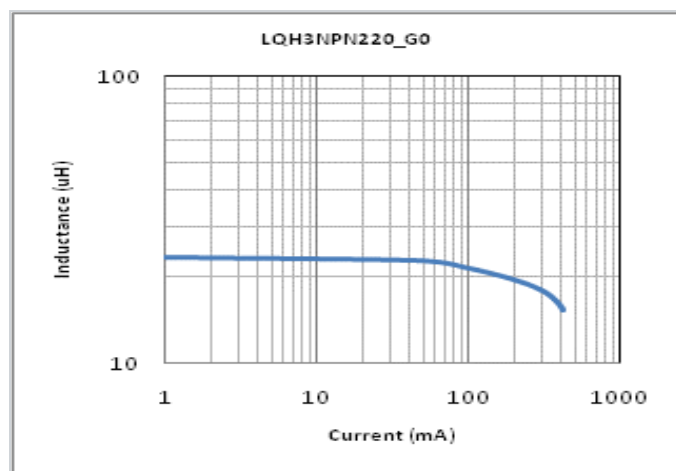
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  - 2.This datasheet has only typical specifications because there is no space for detailed specifications.
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## Chart of characteristic data (The charts below may show another part number which shares its characteristics.)

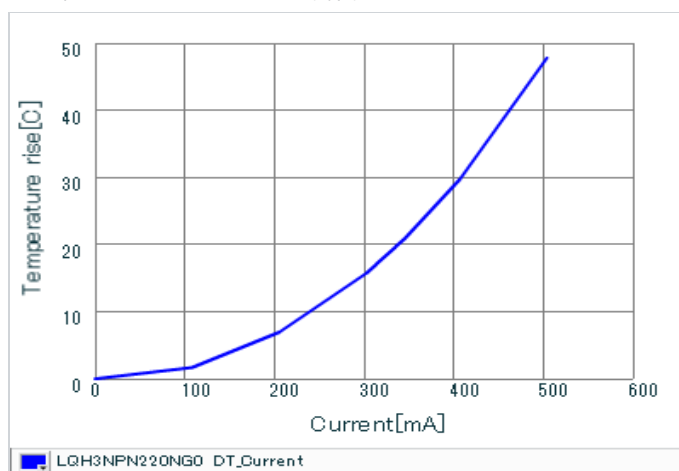
■ Inductance-Frequency characteristics (Typ.)



■ Inductance-Current characteristics (Typ.)



■ Temperature rise characteristics (Typ.)



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