muRata Inductor Data Sheet

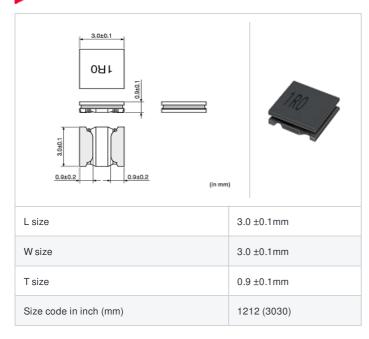
"#" indicates a package specification code.



LQH3NPN680MGR#

< List of part numbers with package codes > LQH3NPN680MGRL , LQH3NPN680MGRK





# Notes

When rated current is applied to the products, inductance will be within ±30% of initial inductance value range.

Keep the temperature (ambient temperature plus self-generation of heat) under 105°C.

When rated current is applied to the products, the temperature rise caused by self-generated heat shall be limited to 20 °C.



Packaging code	Specifications	Minimum quantity
L	φ180mm Embossed taping	3000
К	φ330mm Embossed taping	11000

Mass (Typ.)	
1 piece	0.034g

### Specifications

Inductance	68μH ±20%
Inductance test frequency	1MHz
Rated current (Isat) (Based on Inductance change)	220mA
Rated current (Itemp) (Based on Temperature rise)	280mA(Ambient temp.85°C)
Max. of DC resistance	2.52Ω
Avg. of DC resistance	2.1Ω±20%
Self resonance frequency (min.)	6MHz
Operating temperature range (Self-temperature rise is included)	-40°C to 105°C
Operating temperature range (Self-temperature rise is not included)	-40°C to 85°C
Class of magnetic shield	Magnetic Resin
Series	LQH3NPN_GR

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### 🔔 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

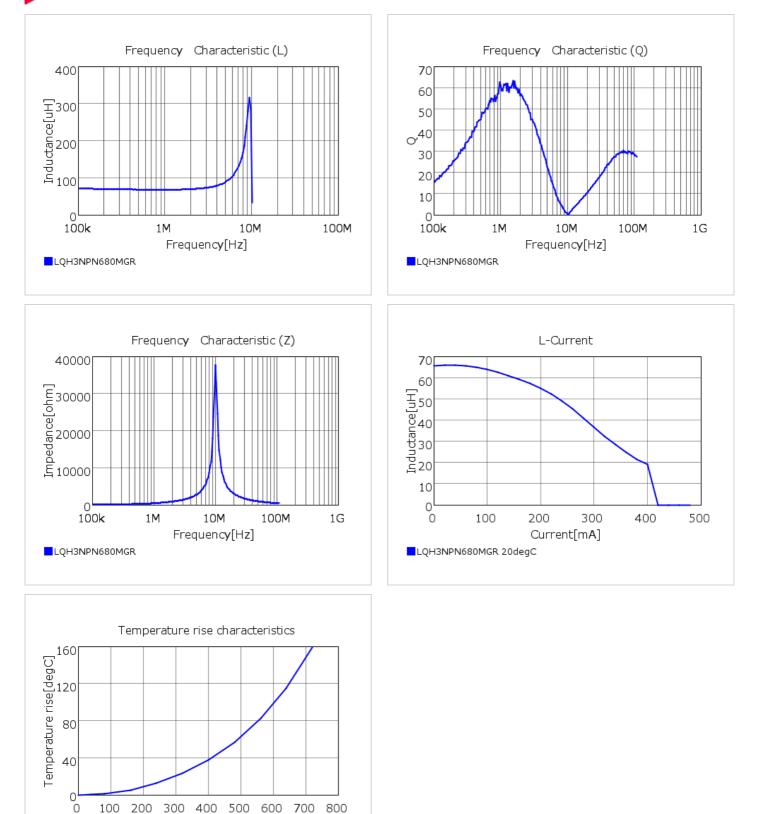
without advance notice. Please check with our sales representatives or product engineers before ordering.

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.



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



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#### 🔔 Attention

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LQH3NPN680MGR

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