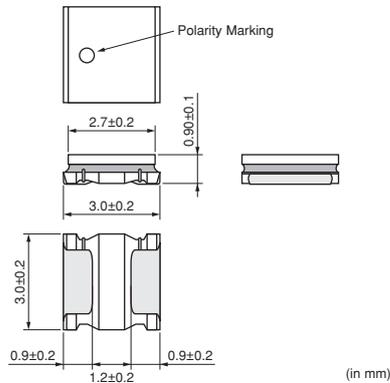


# LQH3NPN\_G0 Series 1212/3030 (inch/mm)



## ■ Dimensions



## ■ Packaging

Code	Packaging	Minimum Quantity
L	ø180mm Embossed Taping	1500
K	ø330mm Embossed Taping	6000

## ■ Rated Value (□: packaging code)

Part Number	Inductance	Inductance Test Frequency	Rated Current (Based on Inductance Change)	Rated Current (Based on Temperature Rise)	DC Resistance	Self-Resonance Frequency (min.)
LQH3NPN1R0NG0□	1.0μH ±30%	1MHz	1650mA	1525mA	0.08Ω ±20%	160MHz
LQH3NPN1R5NG0□	1.5μH ±30%	1MHz	1300mA	1470mA	0.10Ω ±20%	130MHz
LQH3NPN2R2NG0□	2.2μH ±30%	1MHz	1250mA	1270mA	0.14Ω ±20%	100MHz
LQH3NPN3R3NG0□	3.3μH ±30%	1MHz	850mA	1130mA	0.18Ω ±20%	75MHz
LQH3NPN4R7NG0□	4.7μH ±30%	1MHz	800mA	925mA	0.26Ω ±20%	60MHz
LQH3NPN6R8NG0□	6.8μH ±30%	1MHz	650mA	710mA	0.45Ω ±20%	48MHz
LQH3NPN100MG0□	10μH ±20%	1MHz	500mA	630mA	0.57Ω ±20%	45MHz
LQH3NPN100NG0□	10μH ±30%	1MHz	500mA	630mA	0.57Ω ±20%	45MHz
LQH3NPN150NG0□	15μH ±30%	1MHz	370mA	475mA	0.91Ω ±20%	35MHz
LQH3NPN220MG0□	22μH ±20%	1MHz	340mA	430mA	1.1Ω ±20%	25MHz
LQH3NPN220NG0□	22μH ±30%	1MHz	340mA	430mA	1.1Ω ±20%	25MHz
LQH3NPN330MG0□	33μH ±20%	1MHz	250mA	345mA	2.1Ω ±20%	24MHz
LQH3NPN330NG0□	33μH ±30%	1MHz	250mA	345mA	2.1Ω ±20%	24MHz
LQH3NPN470MG0□	47μH ±20%	1MHz	170mA	270mA	3.0Ω ±20%	19MHz
LQH3NPN470NG0□	47μH ±30%	1MHz	170mA	270mA	3.0Ω ±20%	19MHz
LQH3NPN680MG0□	68μH ±20%	1MHz	150mA	235mA	4.2Ω ±20%	16MHz
LQH3NPN680NG0□	68μH ±30%	1MHz	150mA	235mA	4.2Ω ±20%	16MHz
LQH3NPN101MG0□	100μH ±20%	1MHz	140mA	165mA	8.0Ω ±20%	10MHz
LQH3NPN101NG0□	100μH ±30%	1MHz	140mA	165mA	8.0Ω ±20%	10MHz
LQH3NPN151MG0□	150μH ±20%	1MHz	110mA	145mA	11.0Ω ±20%	10MHz
LQH3NPN151NG0□	150μH ±30%	1MHz	110mA	145mA	11.0Ω ±20%	10MHz
LQH3NPN221MG0□	220μH ±20%	1MHz	100mA	130mA	14.0Ω ±20%	8.5MHz
LQH3NPN221NG0□	220μH ±30%	1MHz	100mA	130mA	14.0Ω ±20%	8.5MHz
LQH3NPN251MG0□	250μH ±20%	1MHz	80mA	130mA	15.0Ω ±20%	8.0MHz
LQH3NPN251NG0□	250μH ±30%	1MHz	80mA	130mA	15.0Ω ±20%	8.0MHz

Class of Magnetic Shield: Magnetic shield of magnetic powder in resin  
 Operating Temperature Range (Self-temperature rise is not included): -40~85°C  
 For reflow soldering only.

Continued on the following page.

● This data sheet is applied for INDUCTORS (COILS) used for General Electronics equipment for your design.

### ⚠ Note:

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

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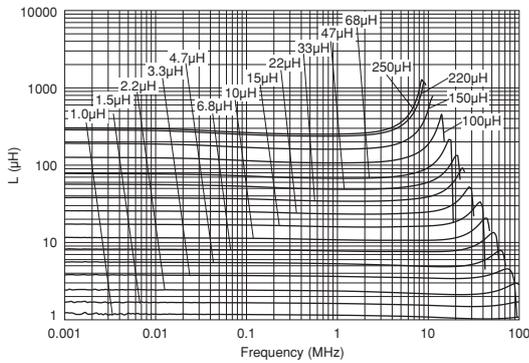
### ■ Notice (Rating)

When applied rated current to the products, inductance will be within  $\pm 30\%$  of nominal inductance value.

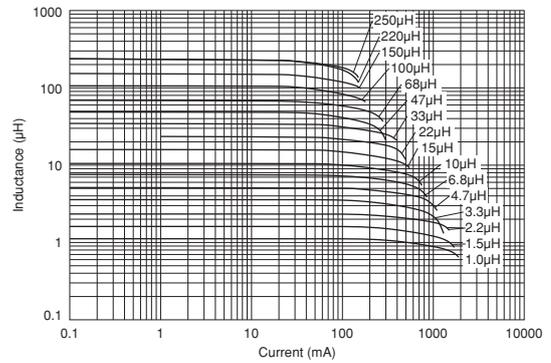
When applied rated current to the products, temperature rise caused by self-generated heat shall be limited to 40°C max.

Keep the temperature (ambient temperature plus self-generation of heat) under 125°C.

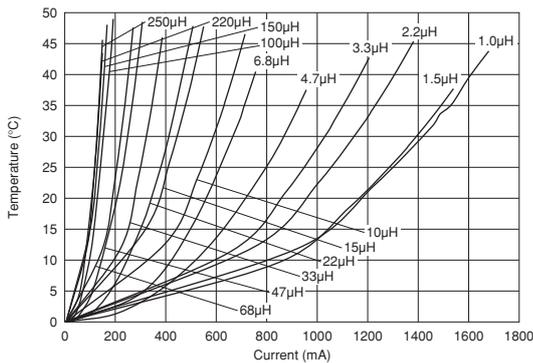
### ■ Inductance-Frequency Characteristics (Typ.)



### ■ Inductance-Current Characteristics (Typ.)



### ■ Temperature Rise Characteristics (Typ.)



### ■ ⚠ Caution/Notice

#### ⚠ Caution (Rating)

Do not use products beyond the rated current as this may create excessive heat.

#### Notice

Solderability of Tin plating termination chip might be deteriorated when low temperature soldering profile where peak solder temperature is below the Tin melting point is used. Please confirm the solderability of Tin plating termination chip before use.

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