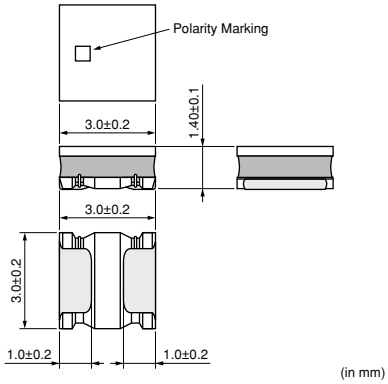
Chip Inductor (Chip Coil) Power Inductor (Wire Wound Type)

LQH3NP_MR Series (1212 Size)

■ Dimensions



(in mm)

■ Packaging

Code	Packaging	Minimum Quantity
E	180mm Embossed Tape	2000
F	330mm Embossed Tape	8000

■ Rated Value (□: packaging code)

Part Number	Inductance	Rated Current (Based on Inductance Change)	Rated Current (Based on Temperature Rise)	DC Resistance	Self Resonance Frequency (min.)
LQH3NPN1R0MMR□	1.0μH ±20%	1600mA	2150mA	0.042ohm ±20%	135MHz
LQH3NPN2R2MMR□	2.2μH ±20%	1380mA	1750mA	0.068ohm ±20%	75MHz
LQH3NPN3R3MMR□	3.3μH ±20%	1200mA	1550mA	0.088ohm ±20%	70MHz
LQH3NPN4R7MMR□	4.7μH ±20%	950mA	1400mA	0.105ohm ±20%	57MHz
LQH3NPN6R8MMR□	6.8μH ±20%	830mA	1250mA	0.155ohm ±20%	40MHz
LQH3NPN100MMR□	10μH ±20%	590mA	1150mA	0.210ohm ±20%	30MHz
LQH3NPN220MMR□	22μH ±20%	430mA	750mA	0.480ohm ±20%	20MHz
LQH3NPN330MMR□	33μH ±20%	380mA	600mA	0.790ohm ±20%	15MHz
LQH3NPN470MMR□	47μH ±20%	320mA	460mA	1.140ohm ±20%	10MHz

Test Frequency: 1MHz Class of Magnetic Shield: Magnetic shield of magnetic powder in resin
Operating Temperature Range (Self-temperature rise is included): -40 to +125°C
Operating Temperature Range (Self-temperature rise is not included): -40 to +85°C
Only for reflow soldering.

■ Notice (Rated Current)

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, self-generation of heat will rise to 40°C or less.

Continued on the following page.

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

⚠Note:

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 approve our product specifications or transact the approval sheet for product specifications before ordering.

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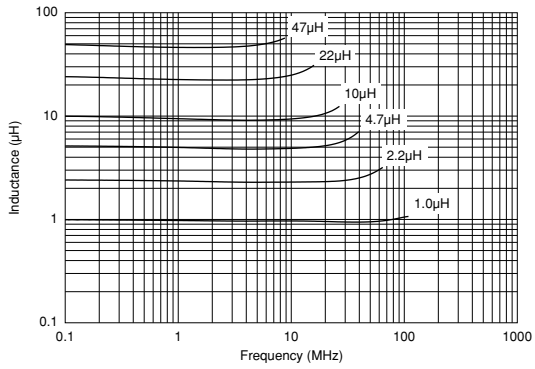
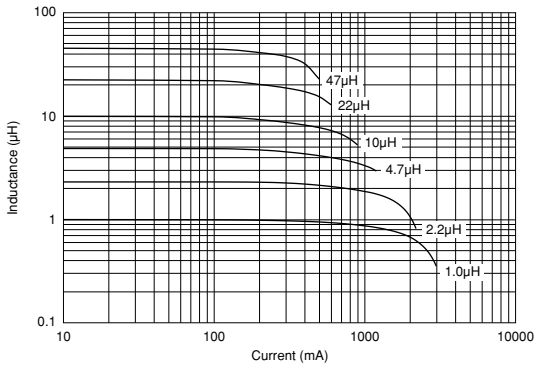
http://www.murata.com/

Continued from the preceding page.

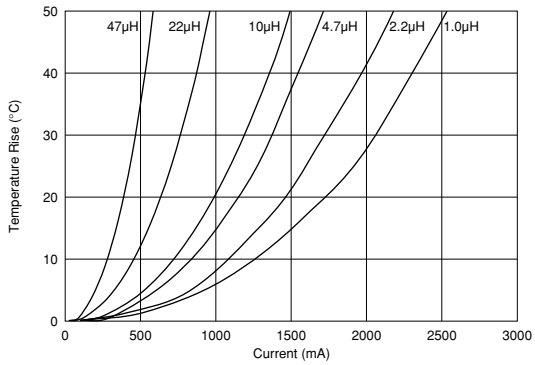
■ Inductance-Frequency Characteristics (Typ.)



■ 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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