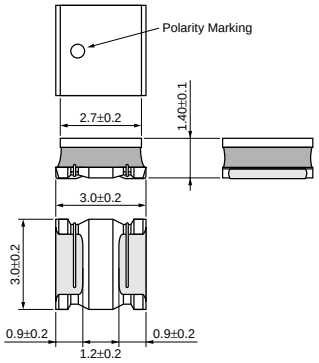
Chip Inductors (Chip Coils) for DC-DC Converter Wire Wound Type

LQH3NP_M0 Series (1212 Size)

■ Dimensions



(in mm)

■ Packaging

Code	Packaging	Minimum Quantity
L	180mm Embossed Tape	1000
K	330mm Embossed Tape	4000

■ Rated Value (☐: packaging code)

Part Number	Inductance	Inductance Test Frequency	Allowable DC Current (Based on Temperature Rise)	Allowable DC Current (Based on Inductance Change)	DC Resistance	Self Resonance Frequency (min.)	Class of Magnetic Shield
LQH3NPN1R0MM0☐	1.0µH±20%	1MHz	2050mA	1400mA	0.044ohm±20%	130MHz	Magnetic shield of magnetic powder in resin
LQH3NPN1R0NM0☐	1.0µH±30%	1MHz	2050mA	1400mA	0.044ohm±20%	130MHz	Magnetic shield of magnetic powder in resin
LQH3NPN2R2MM0☐	2.2µH±20%	1MHz	1600mA	1250mA	0.073ohm±20%	90MHz	Magnetic shield of magnetic powder in resin
LQH3NPN2R2NM0☐	2.2µH±30%	1MHz	1600mA	1250mA	0.073ohm±20%	90MHz	Magnetic shield of magnetic powder in resin
LQH3NPN3R3MM0☐	3.3µH±20%	1MHz	1450mA	1000mA	0.092ohm±20%	75MHz	Magnetic shield of magnetic powder in resin
LQH3NPN3R3NM0☐	3.3µH±30%	1MHz	1450mA	1000mA	0.092ohm±20%	75MHz	Magnetic shield of magnetic powder in resin
LQH3NPN4R7MM0☐	4.7µH±20%	1MHz	1250mA	880mA	0.13ohm±20%	65MHz	Magnetic shield of magnetic powder in resin
LQH3NPN4R7NM0☐	4.7µH±30%	1MHz	1250mA	880mA	0.13ohm±20%	65MHz	Magnetic shield of magnetic powder in resin
LQH3NPN6R8MM0☐	6.8µH±20%	1MHz	1000mA	820mA	0.20ohm±20%	50MHz	Magnetic shield of magnetic powder in resin
LQH3NPN6R8NM0☐	6.8µH±30%	1MHz	1000mA	820mA	0.20ohm±20%	50MHz	Magnetic shield of magnetic powder in resin
LQH3NPN100MM0☐	10µH±20%	1MHz	870mA	550mA	0.26ohm±20%	45MHz	Magnetic shield of magnetic powder in resin
LQH3NPN100NM0☐	10µH±30%	1MHz	870mA	550mA	0.26ohm±20%	45MHz	Magnetic shield of magnetic powder in resin
LQH3NPN220MM0☐	22µH±20%	1MHz	650mA	410mA	0.51ohm±20%	28MHz	Magnetic shield of magnetic powder in resin
LQH3NPN330MM0☐	33µH±20%	1MHz	500mA	370mA	0.85ohm±20%	22MHz	Magnetic shield of magnetic powder in resin
LQH3NPN470MM0☐	47µH±20%	1MHz	410mA	310mA	1.25ohm±20%	18MHz	Magnetic shield of magnetic powder in resin
LQH3NPN101MM0☐	100µH±20%	1MHz	240mA	200mA	3.50ohm±20%	12MHz	Magnetic shield of magnetic powder in resin

Operating Temperature Range: -40°C to +85°C
Only for reflow soldering.

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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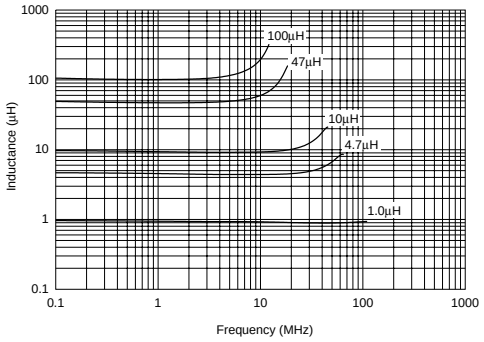
Continued from the preceding page.

■ Notice (Allowable DC Current)

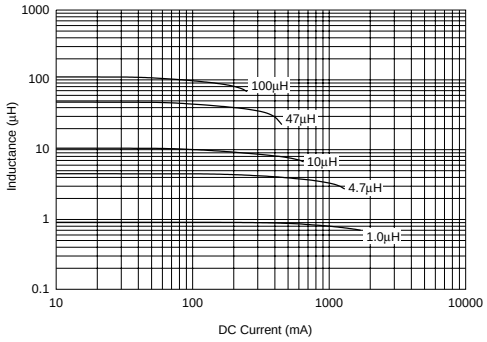
<Allowable DC Current>
When Allowable DC Current is applied to the Products, self-generation of heat will rise to 40°C or less.

When Allowable DC Current is applied to the Products, Inductance will be within +-30% of nominal Inductance value.

■ Inductance - Frequency Characteristics (Typ.)



■ Inductance - Current 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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