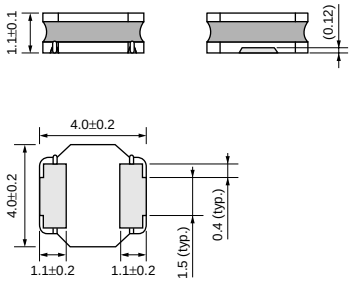
Chip Inductor (Chip Coil) Power Inductor (Wire Wound Type)

LQH44P_J0 Series (1515 Size)

■ Dimensions



(in mm)

■ Packaging

Code	Packaging	Minimum Quantity
L	180mm Embossed Tape	1000
K	330mm Embossed Tape	3500

■ 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.)
LQH44PN1R0NJ0☐	1.0µH±30%	2000mA	1530mA	0.048ohm ±20%	130MHz
LQH44PN1R5MJ0☐	1.5µH±20%	1600mA	1380mA	0.061ohm ±20%	90MHz
LQH44PN2R2MJ0☐	2.2µH±20%	1320mA	1230mA	0.074ohm ±20%	68MHz
LQH44PN3R3MJ0☐	3.3µH±20%	900mA	1000mA	0.088ohm ±20%	55MHz
LQH44PN4R7MJ0☐	4.7µH±20%	840mA	980mA	0.117ohm ±20%	50MHz
LQH44PN6R8MJ0☐	6.8µH±20%	720mA	860mA	0.143ohm ±20%	38MHz
LQH44PN100MJ0☐	10µH±20%	560mA	790mA	0.207ohm ±20%	30MHz
LQH44PN150MJ0☐	15µH±20%	430mA	610mA	0.385ohm ±20%	25MHz
LQH44PN220MJ0☐	22µH±20%	400mA	550mA	0.480ohm ±20%	18MHz
LQH44PN330MJ0☐	33µH±20%	360mA	430mA	0.740ohm ±20%	15MHz
LQH44PN470MJ0☐	47µH±20%	300mA	380mA	1.014ohm ±20%	13MHz

Test Frequency: 100kHz 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.
*1 When Rated Current is applied to the Products, Inductance will be within ±30% of nominal Inductance value.
*2 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/

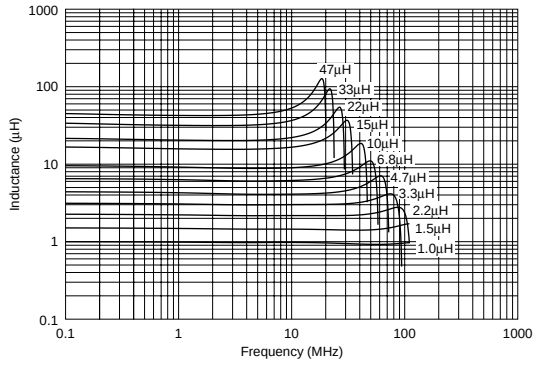
Continued from the preceding page.

■ Notice (Rated Current)

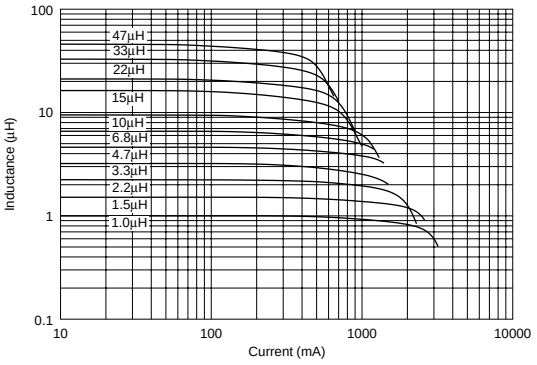
<Rated Current>
(Based on Inductance Change)
When Rated Current is applied to the Products, Inductance will be within +-30% of nominal Inductance value.

<Rated Current>
(Based on Temperature Rise)
When Rated Current is applied to the Products, self-generation of heat will rise to 40°C or less.

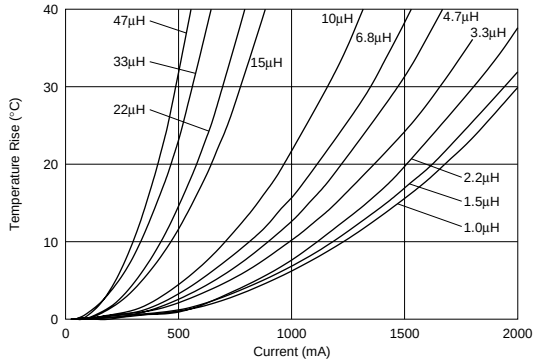
■ Inductance-Frequency Characteristics (Typ.)



■ 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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