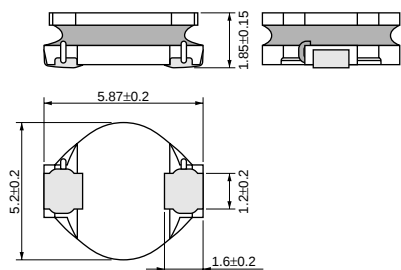


Chip Inductor (Chip Coil) Power Inductor (Wire Wound Type)

LQH55P Series (2220 Size)

■ Dimensions



(in mm)

■ Packaging

Code	Packaging	Minimum Quantity
L	180mm Embossed Tape	500
K	330mm Embossed Tape	3000

■ 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.)
LQH55PN1R2NR0□	1.2μH±30%	2600mA	2900mA	0.021ohm ±20%	80MHz
LQH55PN2R2NR0□	2.2μH±30%	2100mA	2500mA	0.031ohm ±20%	60MHz
LQH55PN2R7NR0□	2.7μH±30%	2070mA	2150mA	0.040ohm ±20%	50MHz
LQH55PN3R3NR0□	3.3μH±30%	2000mA	2000mA	0.044ohm ±20%	35MHz
LQH55PN4R7NR0□	4.7μH±30%	1400mA	1750mA	0.060ohm ±20%	30MHz
LQH55PN6R8NR0□	6.8μH±30%	1200mA	1450mA	0.087ohm ±20%	25MHz
LQH55PN100MR0□	10μH±20%	1000mA	1250mA	0.11ohm ±20%	20MHz
LQH55PN220MR0□	22μH±20%	670mA	850mA	0.26ohm ±20%	10MHz

Test Frequency: 100kHz Class of Magnetic Shield: Magnetic shield of magnetic powder in resin

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.

■ 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.

Continued on the following page.

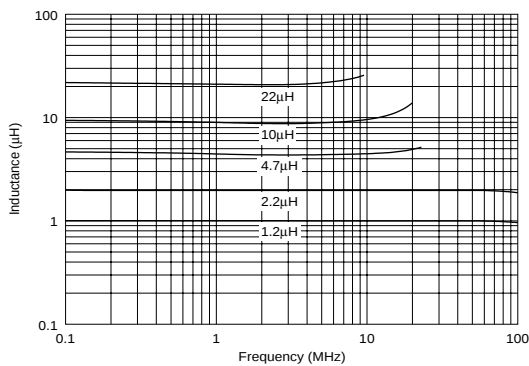
● This data sheet is applied for CHIP INDUCTORS (CHIP COILS) used for General Electronics equipment for your design.

⚠ Note:

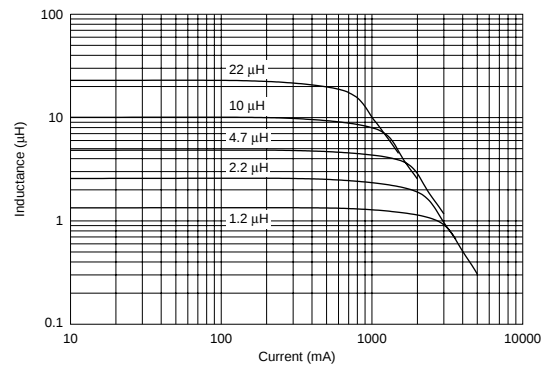
1. This datasheet is downloaded from the website of Murata Manufacturing co., Ltd. Therefore, it's specifications are subject to change or our products in it may be discontinued without advance notice. Please check with our sales representatives or product engineers before ordering.
2. This datasheet 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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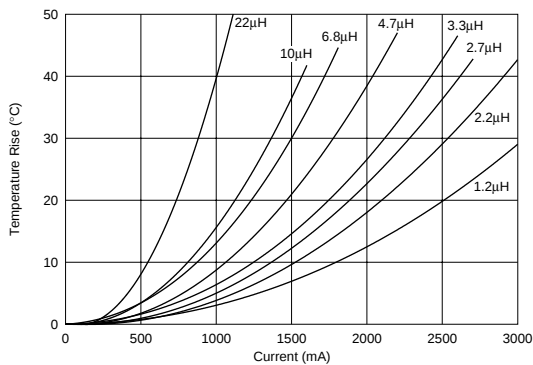
■ Inductance-Frequency Characteristics (Typ.)



■ 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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