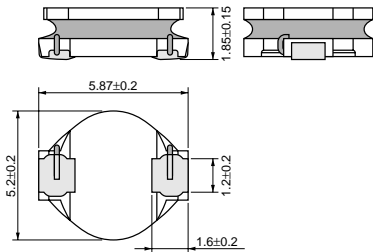


Chip Inductors (Chip Coils) for DC-DC Converter Wire Wound Type

LQH55P Series (2220 Size)

Dimension



(in mm)

Packaging

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

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
LQH55PN1R2NR0□	1.2 μ H \pm 30%	100kHz	2900mA	2600mA	0.021ohm \pm 20%	80MHz	Magnetic shield of magnetic powder in resin
LQH55PN2R2NR0□	2.2 μ H \pm 30%	100kHz	2500mA	2100mA	0.031ohm \pm 20%	60MHz	Magnetic shield of magnetic powder in resin
LQH55PN2R7NR0□	2.7 μ H \pm 30%	100kHz	2150mA	2070mA	0.040ohm \pm 20%	50MHz	Magnetic shield of magnetic powder in resin
LQH55PN3R3NR0□	3.3 μ H \pm 30%	100kHz	2000mA	2000mA	0.044ohm \pm 20%	35MHz	Magnetic shield of magnetic powder in resin
LQH55PN4R7NR0□	4.7 μ H \pm 30%	100kHz	1750mA	1400mA	0.060ohm \pm 20%	30MHz	Magnetic shield of magnetic powder in resin
LQH55PN6R8NR0□	6.8 μ H \pm 30%	100kHz	1450mA	1200mA	0.087ohm \pm 20%	25MHz	Magnetic shield of magnetic powder in resin
LQH55PN100MR0□	10 μ H \pm 20%	100kHz	1250mA	1000mA	0.11ohm \pm 20%	20MHz	Magnetic shield of magnetic powder in resin
LQH55PN220MR0□	22 μ H \pm 20%	100kHz	850mA	670mA	0.26ohm \pm 20%	10MHz	Magnetic shield of magnetic powder in resin

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

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.

Continued on the following page.

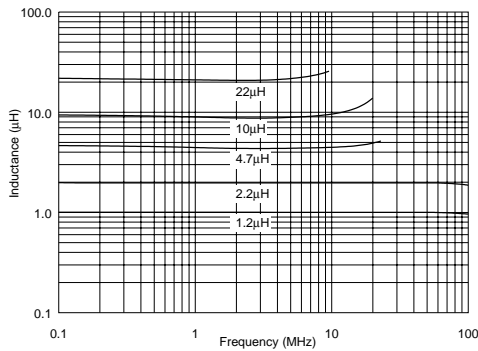
● This data sheet is applied for CHIP INDUCTORS (CHIP COILS) used for General Electronics equipment for your design.

Note:

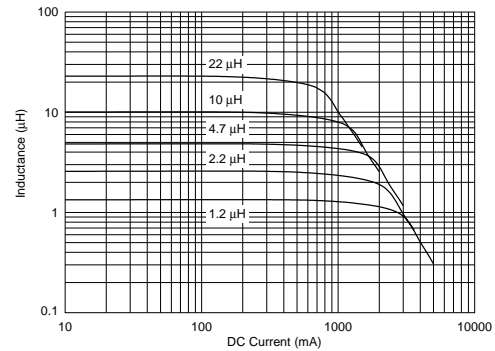
1. This datasheet is downloaded from the website of Murata Manufacturing Co., Ltd. Therefore, it's specifications are subject to change or our products in it may be discontinued without advance notice. Please check with our sales representatives or product engineers before ordering.
2. This datasheet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

Continued from the preceding page.

■ 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.

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

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