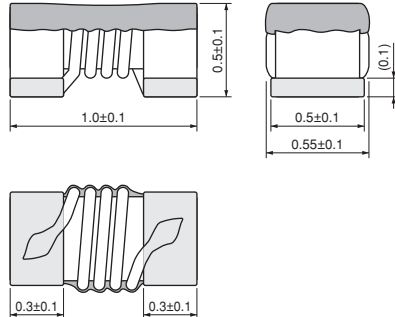


# Chip Inductor (Chip Coil) Power Inductor (Wire Wound Type for Choke)

## LQW15C Series (0402 Size)

### ■ Dimensions



(in mm)

### ■ Packaging

Code	Packaging	Minimum Quantity
D	180mm Paper Tape	10000
B	Bulk(Bag)	500

### ■ Rated Value (□: packaging code)

Part Number	Inductance	Test Frequency	Rated Current	Max. of DC Resistance	Self Resonance Frequency (min.)
LQW15CN18NJ00□	18nH ±5%	100MHz	1400mA	0.046ohm	3000MHz
LQW15CN33NJ00□	33nH ±5%	100MHz	1300mA	0.065ohm	1800MHz
LQW15CN48NJ00□	48nH ±5%	100MHz	1100mA	0.078ohm	1400MHz
LQW15CN70NJ00□	70nH ±5%	100MHz	820mA	0.12ohm	1300MHz
LQW15CN96NJ00□	96nH ±5%	100MHz	730mA	0.16ohm	1100MHz
LQW15CNR13J00□	130nH ±5%	100MHz	640mA	0.23ohm	1000MHz
LQW15CNR16J00□	160nH ±5%	100MHz	480mA	0.33ohm	900MHz
LQW15CNR20J00□	200nH ±5%	100MHz	390mA	0.47ohm	800MHz

Class of Magnetic Shield: No magnetic shield

Operating Temperature Range (Self-temperature rise is included): -55 to +135°C

Operating Temperature Range (Self-temperature rise is not included): -55 to +125°C

Only for reflow soldering.

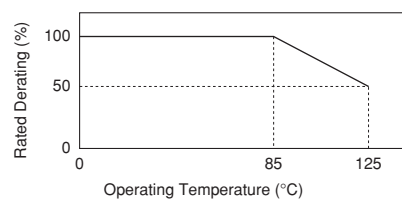
### ■ Derating of Rated Current

#### ■ Notice (Rating)

In operating temperature exceeding +85°C, derating of current is necessary for LQW15C series.

Please apply the derating curve shown in chart according to the operating temperature.

Derating of Rated Current




Continued on the following page.

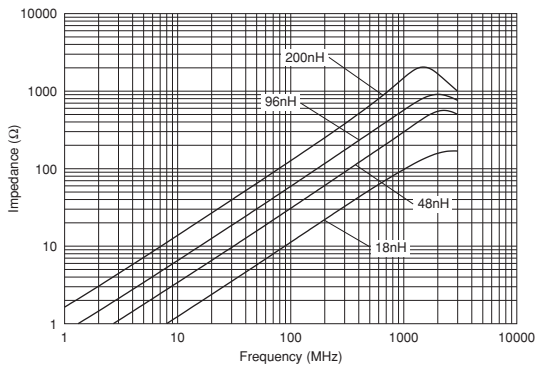
● This data sheet is applied for CHIP INDUCTORS (CHIP COILS) used for General Electronics equipment for your design.

#### ⚠ Note:

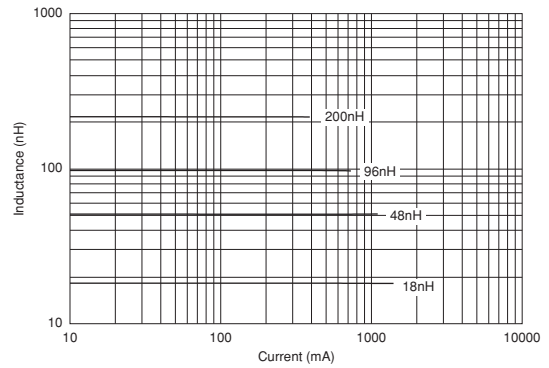
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 Continued from the preceding page.

### ■ Impedance-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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