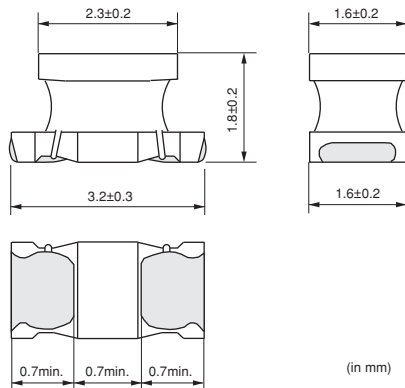


# LQH31CN\_03 Series 1206/3216 (inch/mm)



## ■ Dimensions



## ■ Packaging

Code	Packaging	Minimum Quantity
L	ø180mm Embossed Taping	2000
K	ø330mm Embossed Taping	7500

## ■ Rated Value (□: packaging code)

Part Number	Inductance	Inductance Test Frequency	Rated Current	DC Resistance	Self-Resonance Frequency (min.)
LQH31CNR12M03□	0.12μH ±20%	1MHz	970mA	0.08Ω ±40%	250MHz
LQH31CNR22M03□	0.22μH ±20%	1MHz	850mA	0.10Ω ±40%	250MHz
LQH31CNR47M03□	0.47μH ±20%	1MHz	700mA	0.15Ω ±40%	180MHz
LQH31CN1R0M03□	1.0μH ±20%	1MHz	510mA	0.28Ω ±30%	100MHz
LQH31CN2R2M03□	2.2μH ±20%	1MHz	430mA	0.41Ω ±30%	50MHz
LQH31CN4R7M03□	4.7μH ±20%	1MHz	340mA	0.65Ω ±30%	31MHz
LQH31CN100K03□	10μH ±10%	1MHz	230mA	1.3Ω ±30%	20MHz
LQH31CN220K03□	22μH ±10%	1MHz	160mA	3.0Ω ±30%	14MHz
LQH31CN470K03□	47μH ±10%	1MHz	100mA	8.0Ω ±30%	10MHz
LQH31CN101K03□	100μH ±10%	1MHz	80mA	12.0Ω ±30%	7MHz

Class of Magnetic Shield: No magnetic shield

Operating Temperature Range (Self-temperature rise is not included): -40~85°C

## ■ Notice (Rating)

When applied rated current to the products, inductance will be within ±10% of initial inductance value.

When applied rated current to the products, temperature rise caused by self-generated heat shall be limited to 35°C max.

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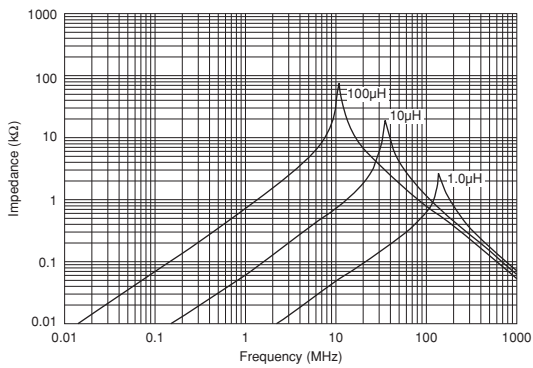
● This data sheet is applied for INDUCTORS (COILS) used for General Electronics equipment for your design.

## ⚠ Note:

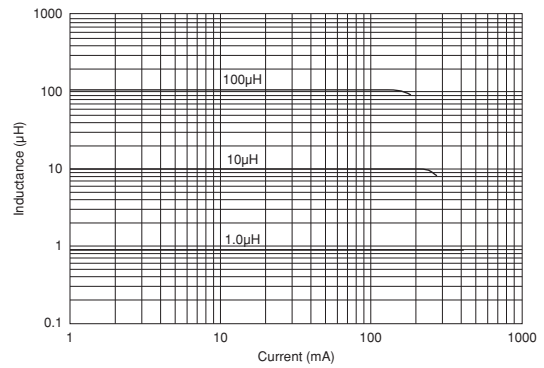
- This datasheet is downloaded from the website of Murata Manufacturing co., ltd. Therefore, it's specifications are subject to change or our products in it may be discontinued without advance notice. Please check with our sales representatives or product engineers before ordering.
- This datasheet has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

### ■ 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 INDUCTORS (COILS) used for General Electronics equipment for your design.

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