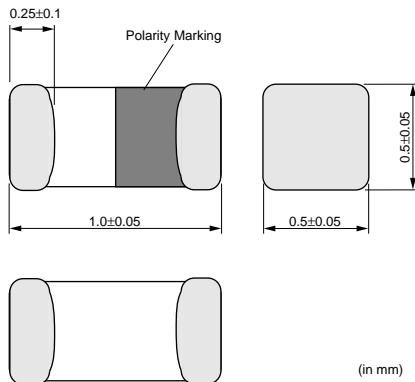


# Chip Inductor (Chip Coil) for High Frequency Multilayer Type

## LQG15HN Series (0402 Size)

### ■ Dimensions



### ■ Packaging

Code	Packaging	Minimum Quantity
D	180mm Paper Tape	10000
J	330mm Paper Tape	50000
B	Bulk(Bag)	1000

### ■ Rated Value (□: packaging code)

Part Number	Inductance	Test Frequency	Rated Current	Max. of DC resistance	Q (min.)	Test Frequency	Self Resonance Frequency (min.)
LQG15HN1N0S02□	1.0nH±0.3nH	100MHz	300mA	0.10ohm	8	100MHz	6000MHz
LQG15HN1N1S02□	1.1nH±0.3nH	100MHz	300mA	0.10ohm	8	100MHz	6000MHz
LQG15HN1N2S02□	1.2nH±0.3nH	100MHz	300mA	0.10ohm	8	100MHz	6000MHz
LQG15HN1N3S02□	1.3nH±0.3nH	100MHz	300mA	0.10ohm	8	100MHz	6000MHz
LQG15HN1N5S02□	1.5nH±0.3nH	100MHz	300mA	0.10ohm	8	100MHz	6000MHz
LQG15HN1N6S02□	1.6nH±0.3nH	100MHz	300mA	0.10ohm	8	100MHz	6000MHz
LQG15HN1N8S02□	1.8nH±0.3nH	100MHz	300mA	0.10ohm	8	100MHz	6000MHz
LQG15HN2N0S02□	2.0nH±0.3nH	100MHz	300mA	0.12ohm	8	100MHz	6000MHz
LQG15HN2N2S02□	2.2nH±0.3nH	100MHz	300mA	0.15ohm	8	100MHz	6000MHz
LQG15HN2N4S02□	2.4nH±0.3nH	100MHz	300mA	0.16ohm	8	100MHz	6000MHz
LQG15HN2N7S02□	2.7nH±0.3nH	100MHz	300mA	0.17ohm	8	100MHz	6000MHz
LQG15HN3N0S02□	3.0nH±0.3nH	100MHz	300mA	0.18ohm	8	100MHz	6000MHz
LQG15HN3N3S02□	3.3nH±0.3nH	100MHz	300mA	0.19ohm	8	100MHz	6000MHz
LQG15HN3N6S02□	3.6nH±0.3nH	100MHz	300mA	0.19ohm	8	100MHz	6000MHz
LQG15HN3N9S02□	3.9nH±0.3nH	100MHz	300mA	0.19ohm	8	100MHz	6000MHz
LQG15HN4N3S02□	4.3nH±0.3nH	100MHz	300mA	0.21ohm	8	100MHz	6000MHz
LQG15HN4N7S02□	4.7nH±0.3nH	100MHz	300mA	0.23ohm	8	100MHz	6000MHz
LQG15HN5N1S02□	5.1nH±0.3nH	100MHz	300mA	0.24ohm	8	100MHz	6000MHz
LQG15HN5N6S02□	5.6nH±0.3nH	100MHz	300mA	0.26ohm	8	100MHz	5300MHz
LQG15HN6N2S02□	6.2nH±0.3nH	100MHz	300mA	0.27ohm	8	100MHz	4300MHz
LQG15HN6N8J02□	6.8nH±5%	100MHz	300mA	0.29ohm	8	100MHz	4200MHz
LQG15HN7N5J02□	7.5nH±5%	100MHz	300mA	0.31ohm	8	100MHz	3900MHz
LQG15HN8N2J02□	8.2nH±5%	100MHz	300mA	0.33ohm	8	100MHz	3600MHz


Operating Temperature Range: -55°C to +125°C  
Only for reflow soldering.

Continued on the following page.

● This data sheet is applied for CHIP INDUCTORS (CHIP 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.

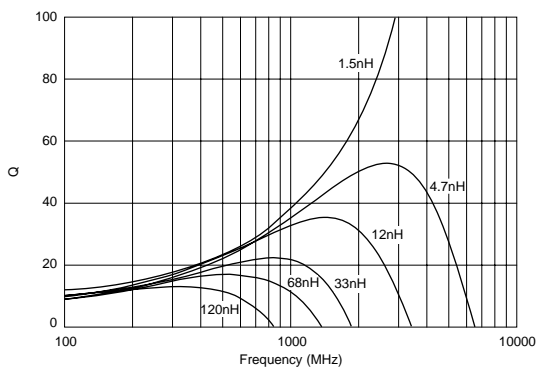
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Part Number	Inductance	Test Frequency	Rated Current	Max. of DC resistance	Q (min.)	Test Frequency	Self Resonance Frequency (min.)
LQG15HN9N1J02□	9.1nH±5%	100MHz	300mA	0.34ohm	8	100MHz	3400MHz
LQG15HN10NJ02□	10nH±5%	100MHz	300mA	0.35ohm	8	100MHz	3200MHz
LQG15HN12NJ02□	12nH±5%	100MHz	300mA	0.41ohm	8	100MHz	2800MHz
LQG15HN15NJ02□	15nH±5%	100MHz	300mA	0.46ohm	8	100MHz	2300MHz
LQG15HN18NJ02□	18nH±5%	100MHz	300mA	0.51ohm	8	100MHz	2100MHz
LQG15HN22NJ02□	22nH±5%	100MHz	300mA	0.58ohm	8	100MHz	1800MHz
LQG15HN27NJ02□	27nH±5%	100MHz	300mA	0.67ohm	8	100MHz	1600MHz
LQG15HN33NJ02□	33nH±5%	100MHz	200mA	0.67ohm	8	100MHz	1500MHz
LQG15HN39NJ02□	39nH±5%	100MHz	200mA	1.06ohm	8	100MHz	1200MHz
LQG15HN47NJ02□	47nH±5%	100MHz	200mA	1.15ohm	8	100MHz	1000MHz
LQG15HN56NJ02□	56nH±5%	100MHz	200mA	1.20ohm	8	100MHz	800MHz
LQG15HN68NJ02□	68nH±5%	100MHz	180mA	1.25ohm	8	100MHz	800MHz
LQG15HN82NJ02□	82nH±5%	100MHz	150mA	1.60ohm	8	100MHz	600MHz
LQG15HNR10J02□	100nH±5%	100MHz	150mA	1.60ohm	8	100MHz	600MHz
LQG15HNR12J02□	120nH±5%	100MHz	150mA	1.60ohm	8	100MHz	600MHz

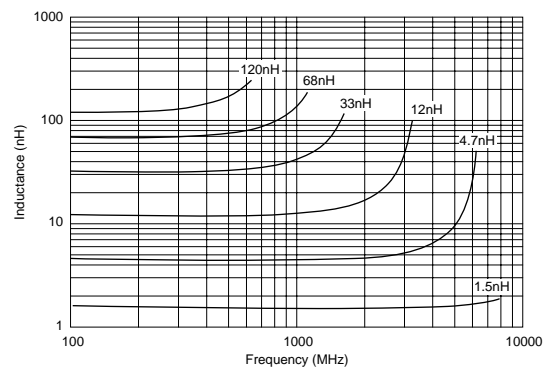
Operating Temperature Range: -55°C to +125°C

Only for reflow soldering.

### ■ Q-Frequency Characteristics (Typ.)



### ■ Inductance-Frequency 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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