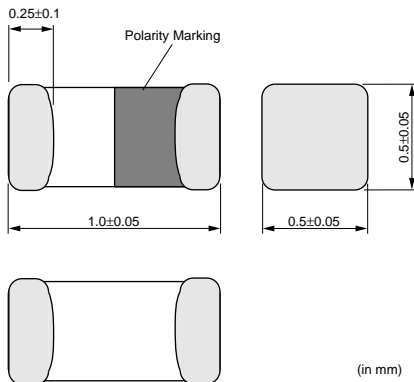


# Chip Inductors for Automotive (Chip Coils for Automotive) for High Frequency Monolithic Type

## LQG15H Series (0402 Size)

### Dimension



### 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.)
LQG15HH1N0S02□	1.0nH±0.3nH	100MHz	300mA	0.07ohm	8	100MHz	10000MHz
LQG15HH1N1S02□	1.1nH±0.3nH	100MHz	300mA	0.09ohm	8	100MHz	6000MHz
LQG15HH1N2S02□	1.2nH±0.3nH	100MHz	300mA	0.09ohm	8	100MHz	6000MHz
LQG15HH1N3S02□	1.3nH±0.3nH	100MHz	300mA	0.09ohm	8	100MHz	6000MHz
LQG15HH1N5S02□	1.5nH±0.3nH	100MHz	300mA	0.1ohm	8	100MHz	6000MHz
LQG15HH1N6S02□	1.6nH±0.3nH	100MHz	300mA	0.1ohm	8	100MHz	6000MHz
LQG15HH1N8S02□	1.8nH±0.3nH	100MHz	300mA	0.1ohm	8	100MHz	6000MHz
LQG15HH2N0S02□	2.0nH±0.3nH	100MHz	300mA	0.1ohm	8	100MHz	6000MHz
LQG15HH2N2S02□	2.2nH±0.3nH	100MHz	300mA	0.12ohm	8	100MHz	6000MHz
LQG15HH2N4S02□	2.4nH±0.3nH	100MHz	300mA	0.15ohm	8	100MHz	6000MHz
LQG15HH2N7S02□	2.7nH±0.3nH	100MHz	300mA	0.15ohm	8	100MHz	6000MHz
LQG15HH3N0S02□	3.0nH±0.3nH	100MHz	300mA	0.17ohm	8	100MHz	6000MHz
LQG15HH3N3S02□	3.3nH±0.3nH	100MHz	300mA	0.17ohm	8	100MHz	6000MHz
LQG15HH3N6S02□	3.6nH±0.3nH	100MHz	300mA	0.18ohm	8	100MHz	6000MHz
LQG15HH3N9S02□	3.9nH±0.3nH	100MHz	300mA	0.18ohm	8	100MHz	6000MHz
LQG15HH4N3S02□	4.3nH±0.3nH	100MHz	300mA	0.18ohm	8	100MHz	6000MHz
LQG15HH4N7S02□	4.7nH±0.3nH	100MHz	300mA	0.18ohm	8	100MHz	6000MHz
LQG15HH5N1S02□	5.1nH±0.3nH	100MHz	300mA	0.2ohm	8	100MHz	5300MHz
LQG15HH5N6S02□	5.6nH±0.3nH	100MHz	300mA	0.2ohm	8	100MHz	4500MHz
LQG15HH6N2S02□	6.2nH±0.3nH	100MHz	300mA	0.22ohm	8	100MHz	4500MHz
LQG15HH6N8J02□	6.8nH±5%	100MHz	300mA	0.24ohm	8	100MHz	4500MHz
LQG15HH7N5J02□	7.5nH±5%	100MHz	300mA	0.24ohm	8	100MHz	4200MHz
LQG15HH8N2J02□	8.2nH±5%	100MHz	300mA	0.24ohm	8	100MHz	3700MHz

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 Automotive Electronics equipment for your design.

### Note:

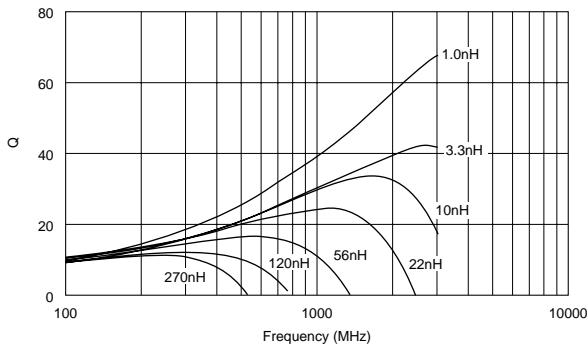
- This datasheet is downloaded from the website of Murata Manufacturing co., Ltd. Therefore, it's specifications are subject to change or our products in it may be discontinued without advance notice. Please check with our sales representatives or product engineers before ordering.
- This datasheet has 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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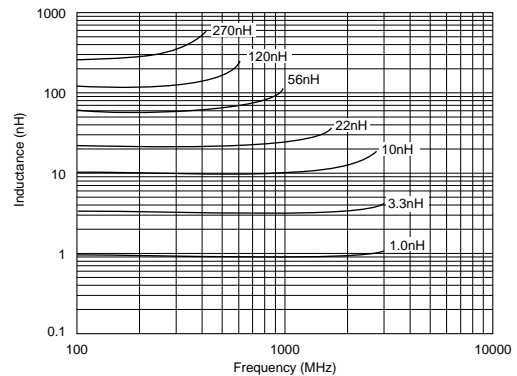
Part Number	Inductance	Test Frequency	Rated Current	Max. of DC Resistance	Q (min.)	Test Frequency	Self Resonance Frequency (min.)
LQG15HH9N1J02□	9.1nH±5%	100MHz	300mA	0.26ohm	8	100MHz	3400MHz
LQG15HH10NJ02□	10nH±5%	100MHz	300mA	0.26ohm	8	100MHz	3400MHz
LQG15HH12NJ02□	12nH±5%	100MHz	300mA	0.28ohm	8	100MHz	3000MHz
LQG15HH15NJ02□	15nH±5%	100MHz	300mA	0.32ohm	8	100MHz	2500MHz
LQG15HH18NJ02□	18nH±5%	100MHz	300mA	0.36ohm	8	100MHz	2200MHz
LQG15HH22NJ02□	22nH±5%	100MHz	300mA	0.42ohm	8	100MHz	1900MHz
LQG15HH27NJ02□	27nH±5%	100MHz	300mA	0.46ohm	8	100MHz	1700MHz
LQG15HH33NJ02□	33nH±5%	100MHz	200mA	0.58ohm	8	100MHz	1600MHz
LQG15HH39NJ02□	39nH±5%	100MHz	200mA	0.65ohm	8	100MHz	1200MHz
LQG15HH47NJ02□	47nH±5%	100MHz	200mA	0.72ohm	8	100MHz	1000MHz
LQG15HH56NJ02□	56nH±5%	100MHz	200mA	0.82ohm	8	100MHz	800MHz
LQG15HH68NJ02□	68nH±5%	100MHz	180mA	0.92ohm	8	100MHz	800MHz
LQG15HH82NJ02□	82nH±5%	100MHz	150mA	1.2ohm	8	100MHz	700MHz
LQG15HHR10J02□	100nH±5%	100MHz	150mA	1.25ohm	8	100MHz	600MHz
LQG15HHR12J02□	120nH±5%	100MHz	150mA	1.3ohm	8	100MHz	600MHz
LQG15HHR15J02□	150nH±5%	100MHz	140mA	2.99ohm	8	100MHz	550MHz
LQG15HHR18J02□	180nH±5%	100MHz	130mA	3.38ohm	8	100MHz	500MHz
LQG15HHR22J02□	220nH±5%	100MHz	120mA	3.77ohm	8	100MHz	450MHz
LQG15HHR27J02□	270nH±5%	100MHz	110mA	4.94ohm	8	100MHz	400MHz

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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