

Chip Coils



High Frequency Monolithic Type LQG15H/LQG18H Series

LQG15H Series

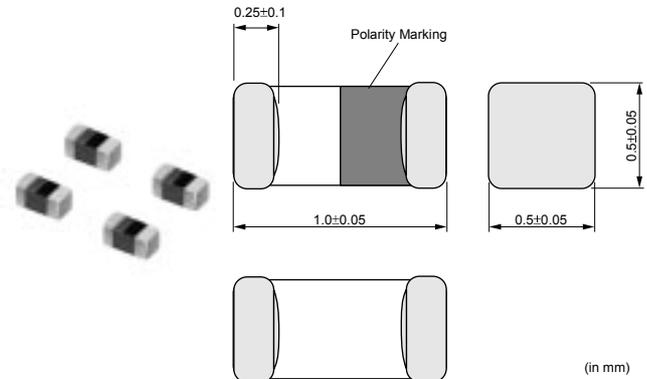
The LQG15H series are chip inductors specifically designed for high frequency applications. The LQG15H series is designed to realize stable characteristics in high frequency range applying integrated multilayer process. The integrated multilayer process enables a wide range of inductance values with tight tolerance.

■ Features

1. High-Q, stable inductance in high frequency is achieved by the original structure that minimizes stray capacitance. It is suitable for the high frequency circuits of mobile communication equipment.
2. The small size of LQG15H (1.0x0.5x0.5mm) is suitable for small and low profile mobile equipment.
3. The external electrodes with nickel barrier structure provide excellent solder heat resistance.

■ Applications

1. High frequency circuits of mobile phones such as PA, ANT, VCO, SAW, etc.
2. Mobile phones such as GSM, CDMA, PDC, etc.
3. "Bluetooth"
4. W-LAN
5. High frequency circuits in general



Part Number	Inductance (nH)	Test Frequency (MHz)	Rated Current (mA)	DC Resistance (ohm)	Q (min.)	Test Frequency (MHz)	Self Resonance Frequency (MHz)	EIA
LQG15HN1N0S02	1.0 ±0.3nH	100	300	0.10 max.	8	100	6000 min.	0402
LQG15HN1N1S02	1.1 ±0.3nH	100	300	0.10 max.	8	100	6000 min.	0402
LQG15HN1N2S02	1.2 ±0.3nH	100	300	0.10 max.	8	100	6000 min.	0402
LQG15HN1N3S02	1.3 ±0.3nH	100	300	0.10 max.	8	100	6000 min.	0402
LQG15HN1N5S02	1.5 ±0.3nH	100	300	0.10 max.	8	100	6000 min.	0402
LQG15HN1N6S02	1.6 ±0.3nH	100	300	0.10 max.	8	100	6000 min.	0402
LQG15HN1N8S02	1.8 ±0.3nH	100	300	0.10 max.	8	100	6000 min.	0402
LQG15HN2N0S02	2.0 ±0.3nH	100	300	0.12 max.	8	100	6000 min.	0402
LQG15HN2N2S02	2.2 ±0.3nH	100	300	0.15 max.	8	100	6000 min.	0402
LQG15HN2N4S02	2.4 ±0.3nH	100	300	0.16 max.	8	100	6000 min.	0402
LQG15HN2N7S02	2.7 ±0.3nH	100	300	0.17 max.	8	100	6000 min.	0402
LQG15HN3N0S02	3.0 ±0.3nH	100	300	0.18 max.	8	100	6000 min.	0402
LQG15HN3N3S02	3.3 ±0.3nH	100	300	0.19 max.	8	100	6000 min.	0402
LQG15HN3N6S02	3.6 ±0.3nH	100	300	0.19 max.	8	100	6000 min.	0402
LQG15HN3N9S02	3.9 ±0.3nH	100	300	0.19 max.	8	100	6000 min.	0402
LQG15HN4N3S02	4.3 ±0.3nH	100	300	0.21 max.	8	100	6000 min.	0402
LQG15HN4N7S02	4.7 ±0.3nH	100	300	0.23 max.	8	100	6000 min.	0402
LQG15HN5N1S02	5.1 ±0.3nH	100	300	0.24 max.	8	100	6000 min.	0402
LQG15HN5N6S02	5.6 ±0.3nH	100	300	0.26 max.	8	100	5300 min.	0402
LQG15HN6N2S02	6.2 ±0.3nH	100	300	0.27 max.	8	100	4300 min.	0402
LQG15HN6N8J02	6.8 ±5%	100	300	0.29 max.	8	100	4200 min.	0402

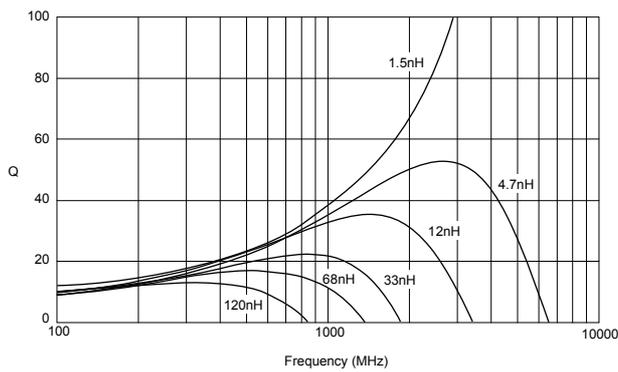
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Part Number	Inductance (nH)	Test Frequency (MHz)	Rated Current (mA)	DC Resistance (ohm)	Q (min.)	Test Frequency (MHz)	Self Resonance Frequency (MHz)	EIA
LQG15HN7N5J02	7.5 ±5%	100	300	0.31 max.	8	100	3900 min.	0402
LQG15HN8N2J02	8.2 ±5%	100	300	0.33 max.	8	100	3600 min.	0402
LQG15HN9N1J02	9.1 ±5%	100	300	0.34 max.	8	100	3400 min.	0402
LQG15HN10NJ02	10 ±5%	100	300	0.35 max.	8	100	3200 min.	0402
LQG15HN12NJ02	12 ±5%	100	300	0.41 max.	8	100	2800 min.	0402
LQG15HN15NJ02	15 ±5%	100	300	0.46 max.	8	100	2300 min.	0402
LQG15HN18NJ02	18 ±5%	100	300	0.51 max.	8	100	2100 min.	0402
LQG15HN22NJ02	22 ±5%	100	300	0.58 max.	8	100	1800 min.	0402
LQG15HN27NJ02	27 ±5%	100	300	0.67 max.	8	100	1600 min.	0402
LQG15HN33NJ02	33 ±5%	100	300	0.67 max.	8	100	1500 min.	0402
LQG15HN39NJ02	39 ±5%	100	200	1.06 max.	8	100	1200 min.	0402
LQG15HN47NJ02	47 ±5%	100	200	1.15 max.	8	100	1000 min.	0402
LQG15HN56NJ02	56 ±5%	100	200	1.20 max.	8	100	800 min.	0402
LQG15HN68NJ02	68 ±5%	100	180	1.25 max.	8	100	800 min.	0402
LQG15HN82NJ02	82 ±5%	100	150	1.60 max.	8	100	600 min.	0402
LQG15HNR10J02	100 ±5%	100	150	1.60 max.	8	100	600 min.	0402
LQG15HNR12J02	120 ±5%	100	150	1.60 max.	8	100	600 min.	0402

Operating Temp. Range : -40°C to 85°C

■ Q-Frequency Characteristics



■ Inductance-Frequency Characteristics

