

CHIP COILS



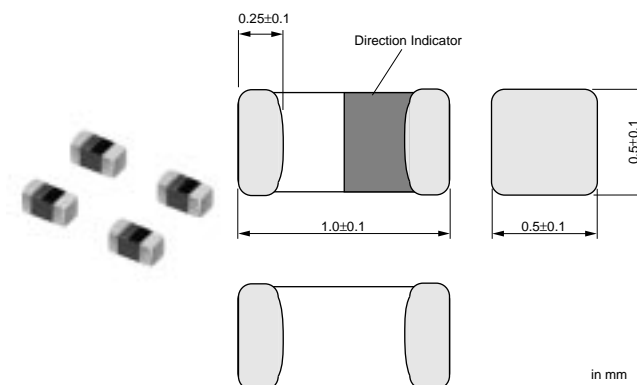
High-frequency Monolithic Type LQG15H/LQG18H Series

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

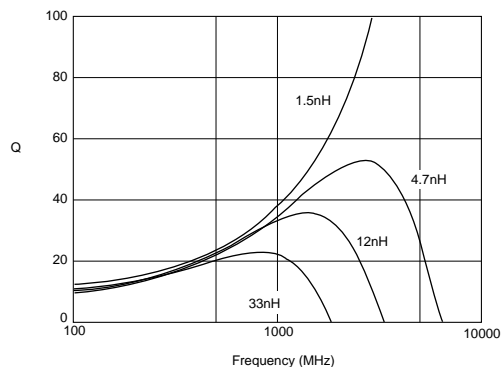
1. High-Q, stable inductance in high frequency is achieved by the unique low-capacitance structure. It is suitable for mobile communication equipment.
2. The small size of LQG15H (1.0x0.5x0.5mm) is ideal for small mobile equipment.
3. The external electrodes with nickel barrier structure provide excellent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



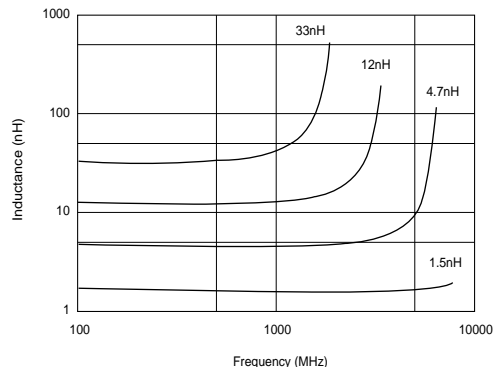
Part Number	Inductance (nH)	Rated Current (mA)	Max. of DC resistance (ohm)	Q (min.)	Self Resonance Frequency (MHz)
LQG15HN6N8J00	6.8 ±5%	200	0.29 max	8 at 100MHz	4200 min.
LQG15HN8N2J00	8.2 ±5%	200	0.33 max	8 at 100MHz	3600 min.
LQG15HN10NJ00	10 ±5%	200	0.35 max	8 at 100MHz	3200 min.
LQG15HN12NJ00	12 ±5%	200	0.41 max	8 at 100MHz	2800 min.
LQG15HN15NJ00	15 ±5%	200	0.46 max	8 at 100MHz	2300 min.
LQG15HN18NJ00	18 ±5%	200	0.51 max	8 at 100MHz	2100 min.
LQG15HN22NJ00	22 ±5%	200	0.58 max	8 at 100MHz	1800 min.
LQG15HN27NJ00	27 ±5%	200	0.67 max	8 at 100MHz	1600 min.
LQG15HN33NJ00	33 ±5%	200	0.67 max	8 at 100MHz	1500 min.
LQG15HN39NJ00	39 ±5%	150	1.06 max	8 at 100MHz	1200 min.
LQG15HN47NJ00	47 ±5%	150	1.15 max	8 at 100MHz	1000 min.
LQG15HN56NJ00	56 ±5%	150	1.20 max	8 at 100MHz	800 min.
LQG15HN68NJ00	68 ±5%	150	1.25 max	8 at 100MHz	800 min.
LQG15HN1N2S00	1.2 ±0.3nH	200	0.10 max	8 at 100MHz	6000 min.
LQG15HN1N5S00	1.5 ±0.3nH	200	0.10 max	8 at 100MHz	6000 min.
LQG15HN1N8S00	1.8 ±0.3nH	200	0.10 max	8 at 100MHz	6000 min.
LQG15HN2N2S00	2.2 ±0.3nH	200	0.15 max	8 at 100MHz	6000 min.
LQG15HN2N7S00	2.7 ±0.3nH	200	0.17 max	8 at 100MHz	6000 min.
LQG15HN3N3S00	3.3 ±0.3nH	200	0.19 max	8 at 100MHz	6000 min.
LQG15HN3N9S00	3.9 ±0.3nH	200	0.19 max	8 at 100MHz	6000 min.
LQG15HN4N7S00	4.7 ±0.3nH	200	0.23 max	8 at 100MHz	6000 min.
LQG15HN5N6S00	5.6 ±0.3nH	200	0.26 max	8 at 100MHz	5300 min.

Min. of Operating Temp. : -40°C to 85°C

1 ■ Q-Frequency Characteristics



■ Inductance-Frequency Characteristics

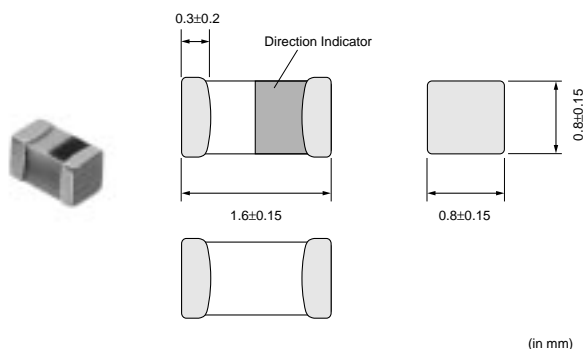


LQG18H Series

The LQG18H series is designed to realize stable characteristics in high frequency range applying intergrated multilayer process.

■ Features

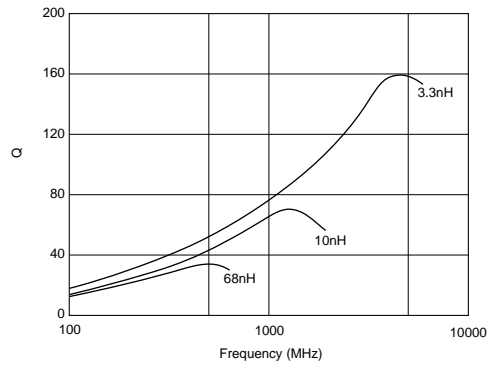
1. High-Q, stable inductance in high frequency is available due to its original low-capacitance structure. It is suitable for small handy equipment, especially for card size equipment.
2. Small size of LQG18H (1.6x0.8x0.8mm) is suitable for small handy equipment, especially for card size equipment.
3. The external electrodes with nickel barrier structure provide excellent solder heat resistance.



Part Number	Inductance (nH)	Rated Current (mA)	Max. of DC resistance (ohm)	Q (min.)	Self Resonance Frequency (MHz)
LQG18HN6N8J00	6.8 ±5%	300	0.25 max	12 at 100MHz	5000 min.
LQG18HN8N2J00	8.2 ±5%	300	0.25 max	12 at 100MHz	4000 min.
LQG18HN10NJ00	10 ±5%	300	0.30 max	12 at 100MHz	3500 min.
LQG18HN12NJ00	12 ±5%	300	0.35 max	12 at 100MHz	3000 min.
LQG18HN15NJ00	15 ±5%	300	0.40 max	12 at 100MHz	2800 min.
LQG18HN18NJ00	18 ±5%	300	0.45 max	12 at 100MHz	2600 min.
LQG18HN22NJ00	22 ±5%	300	0.50 max	12 at 100MHz	2300 min.
LQG18HN27NJ00	27 ±5%	300	0.55 max	12 at 100MHz	2000 min.
LQG18HN33NJ00	33 ±5%	300	0.60 max	12 at 100MHz	1700 min.
LQG18HN39NJ00	39 ±5%	300	0.65 max	12 at 100MHz	1500 min.
LQG18HN47NJ00	47 ±5%	300	0.70 max	12 at 100MHz	1200 min.
LQG18HN56NJ00	56 ±5%	300	0.75 max	12 at 100MHz	1100 min.
LQG18HN68NJ00	68 ±5%	300	0.80 max	12 at 100MHz	1000 min.
LQG18HN82NJ00	82 ±5%	300	0.85 max	12 at 100MHz	900 min.
LQG18HNR10J00	100 ±5%	300	0.90 max	12 at 100MHz	800 min.
LQG18HN1N2S00	1.2 ±0.3nH	300	0.1 max	12 at 100MHz	6000 min.
LQG18HN1N5S00	1.5 ±0.3nH	300	0.1 max	12 at 100MHz	6000 min.
LQG18HN1N8S00	1.8 ±0.3nH	300	0.1 max	12 at 100MHz	6000 min.
LQG18HN2N2S00	2.2 ±0.3nH	300	0.1 max	12 at 100MHz	6000 min.
LQG18HN2N7S00	2.7 ±0.3nH	300	0.15 max	12 at 100MHz	6000 min.
LQG18HN3N3S00	3.3 ±0.3nH	300	0.15 max	12 at 100MHz	6000 min.
LQG18HN3N9S00	3.9 ±0.3nH	300	0.15 max	12 at 100MHz	6000 min.
LQG18HN4N7S00	4.7 ±0.3nH	300	0.20 max	12 at 100MHz	6000 min.
LQG18HN5N6S00	5.6 ±0.3nH	300	0.20 max	12 at 100MHz	5000 min.

Min. of Operating Temp. : -40°C to +85°C

■ Q-Frequency Characteristics



■ Inductance-Frequency Characteristics

