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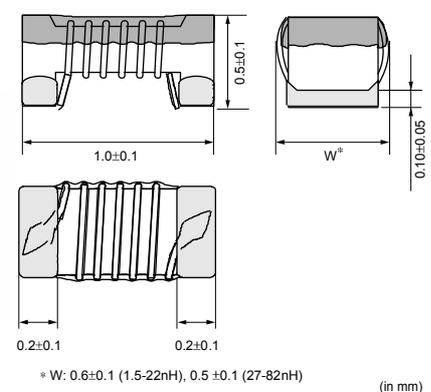
Chip Coils



High Frequency Winding Type LQW15A/LQW18A Series

LQW15A Series

The LQW15A series consists of air core chip coil using a miniature alumina core.
The tight inductance tolerance (+0.2nH, +-3%) is available due to Murata's original winding technology.
The LQW15A series has high Q value in high frequency range and high self resonant frequency. It is suitable for high frequency circuits which are used in telecommunication equipment.



■ Features

1. Horizontal winding structure enables tight inductance tolerance (+0.2nH, +-3%)
2. The subminiature dimensions (1.0x0.5mm) allow high density mounting.
3. The high self resonant frequency realizes high Q value and stable inductance at high frequency.
4. Low DC resistance design is ideal for low loss, high output and low power consumption.
5. Resin-coated surface enables excellent mounting.

■ 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 (GHz)	EIA
LQW15AN1N5C00	1.5 ±0.2nH	100	1000	0.03 max.	10	250	18.0 min.	0402
LQW15AN1N5D00	1.5 ±0.5nH	100	1000	0.03 max.	10	250	18.0 min.	0402
LQW15AN2N7C00	2.7 ±0.2nH	100	850	0.05 max.	20	250	15.0 min.	0402
LQW15AN2N7D00	2.7 ±0.5nH	100	850	0.05 max.	20	250	15.0 min.	0402
LQW15AN3N9C00	3.9 ±0.2nH	100	750	0.07 max.	25	250	10.0 min.	0402
LQW15AN3N9D00	3.9 ±0.5nH	100	750	0.07 max.	25	250	10.0 min.	0402
LQW15AN4N3C00	4.3 ±0.2nH	100	750	0.07 max.	25	250	10.0 min.	0402
LQW15AN4N3D00	4.3 ±0.5nH	100	750	0.07 max.	25	250	10.0 min.	0402
LQW15AN4N7C00	4.7 ±0.2nH	100	750	0.07 max.	25	250	8.0 min.	0402
LQW15AN4N7D00	4.7 ±0.5nH	100	750	0.07 max.	25	250	8.0 min.	0402
LQW15AN5N1C00	5.1 ±0.2nH	100	600	0.12 max.	25	250	8.0 min.	0402
LQW15AN5N1D00	5.1 ±0.5nH	100	600	0.12 max.	25	250	8.0 min.	0402
LQW15AN6N2C00	6.2 ±0.2nH	100	700	0.09 max.	25	250	8.0 min.	0402
LQW15AN6N2D00	6.2 ±0.5nH	100	700	0.09 max.	25	250	8.0 min.	0402
LQW15AN6N8H00	6.8 ±3%	100	700	0.09 max.	25	250	6.0 min.	0402
LQW15AN6N8J00	6.8 ±5%	100	700	0.09 max.	25	250	6.0 min.	0402
LQW15AN7N5H00	7.5 ±3%	100	570	0.13 max.	25	250	6.0 min.	0402
LQW15AN7N5J00	7.5 ±5%	100	570	0.13 max.	25	250	6.0 min.	0402
LQW15AN8N2H00	8.2 ±3%	100	540	0.14 max.	25	250	5.5 min.	0402
LQW15AN8N2J00	8.2 ±5%	100	540	0.14 max.	25	250	5.5 min.	0402

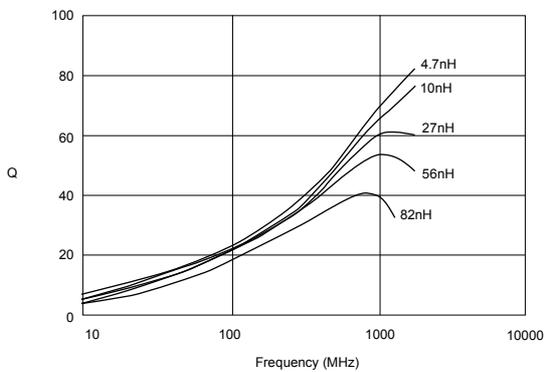
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Part Number	Inductance (nH)	Test Frequency (MHz)	Rated Current (mA)	DC Resistance (ohm)	Q (min.)	Test Frequency (MHz)	Self Resonance Frequency (GHz)	EIA
LQW15AN9N1H00	9.1 ±3%	100	540	0.14 max.	25	250	5.5 min.	0402
LQW15AN9N1J00	9.1 ±5%	100	540	0.14 max.	25	250	5.5 min.	0402
LQW15AN10NH00	10 ±3%	100	500	0.17 max.	25	250	5.5 min.	0402
LQW15AN10NJ00	10 ±5%	100	500	0.17 max.	25	250	5.5 min.	0402
LQW15AN12NH00	12 ±3%	100	500	0.14 max.	30	250	5.5 min.	0402
LQW15AN12NJ00	12 ±5%	100	500	0.14 max.	30	250	5.5 min.	0402
LQW15AN15NH00	15 ±3%	100	460	0.16 max.	30	250	5.0 min.	0402
LQW15AN15NJ00	15 ±5%	100	460	0.16 max.	30	250	5.0 min.	0402
LQW15AN18NH00	18 ±3%	100	370	0.27 max.	25	250	4.5 min.	0402
LQW15AN18NJ00	18 ±5%	100	370	0.27 max.	25	250	4.5 min.	0402
LQW15AN22NH00	22 ±3%	100	310	0.30 max.	25	250	4.0 min.	0402
LQW15AN22NJ00	22 ±5%	100	310	0.30 max.	25	250	4.0 min.	0402
LQW15AN27NH00	27 ±3%	100	280	0.52 max.	25	250	3.5 min.	0402
LQW15AN27NJ00	27 ±5%	100	280	0.52 max.	25	250	3.5 min.	0402
LQW15AN33NH00	33 ±3%	100	260	0.63 max.	25	250	3.2 min.	0402
LQW15AN33NJ00	33 ±5%	100	260	0.63 max.	25	250	3.2 min.	0402
LQW15AN39NH00	39 ±3%	100	250	0.70 max.	25	250	3.0 min.	0402
LQW15AN39NJ00	39 ±5%	100	250	0.70 max.	25	250	3.0 min.	0402
LQW15AN47NH00	47 ±3%	100	210	1.08 max.	25	200	2.9 min.	0402
LQW15AN47NJ00	47 ±5%	100	210	1.08 max.	25	200	2.9 min.	0402
LQW15AN56NH00	56 ±3%	100	200	1.17 max.	25	200	2.8 min.	0402
LQW15AN56NJ00	56 ±5%	100	200	1.17 max.	25	200	2.8 min.	0402
LQW15AN68NJ00	68 ±5%	100	140	1.96 max.	20	200	2.5 min.	0402
LQW15AN82NJ00	82 ±5%	100	130	2.24 max.	20	150	2.3 min.	0402

Operating Temp. Range : -55°C to 125°C

■ Q-Frequency Characteristics



■ Inductance-Frequency Characteristics

