

Chip Coils



High-frequency Film Type LQP03T/LQP15T/LQP15M/LQP18M Series

LQP03T Series

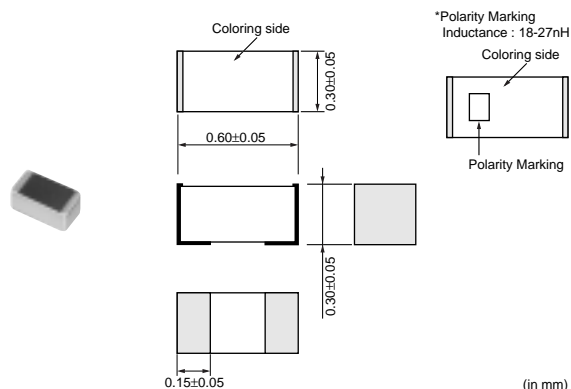
The LQP03T series consists of Ultra-Small chip coils with High Q value using Murata's original film technology.

■ Features

1. Ultra small size 0.6mmx0.3mm
2. Ultra-thin size
3. High Q value in high frequency band.
4. Lead is not contained in the products.

■ Applications

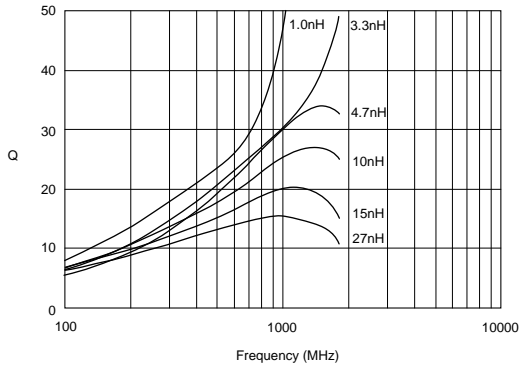
High frequency circuits of telecommunication equipments such as PDC, PCS, GSM and CDMA.



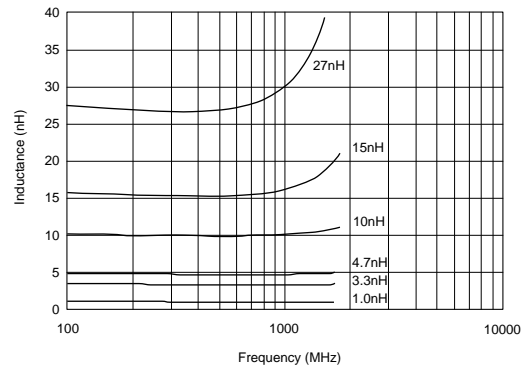
Part Number	Inductance (nH)	Test Frequency (MHz)	Rated Current (mA)	DC Resistance (ohm)	Q (min.)	Test Frequency (MHz)	Self Resonance Frequency (MHz)	EIA
LQP03TN0N6C00	0.6 ±0.2nH	500	420	0.08 max.	11	500	6000 min.	0201
LQP03TN0N8C00	0.8 ±0.2nH	500	410	0.09 max.	11	500	6000 min.	0201
LQP03TN1N0C00	1.0 ±0.2nH	500	400	0.10 max.	11	500	6000 min.	0201
LQP03TN1N2C00	1.2 ±0.2nH	500	280	0.13 max.	11	500	6000 min.	0201
LQP03TN1N5C00	1.5 ±0.2nH	500	280	0.16 max.	11	500	6000 min.	0201
LQP03TN1N8C00	1.8 ±0.2nH	500	280	0.16 max.	11	500	6000 min.	0201
LQP03TN2N2C00	2.2 ±0.2nH	500	220	0.18 max.	11	500	6000 min.	0201
LQP03TN2N7C00	2.7 ±0.2nH	500	220	0.21 max.	11	500	6000 min.	0201
LQP03TN3N3C00	3.3 ±0.2nH	500	190	0.30 max.	11	500	6000 min.	0201
LQP03TN3N9C00	3.9 ±0.2nH	500	170	0.45 max.	11	500	6000 min.	0201
LQP03TN4N7J00	4.7 ±5%	500	160	0.55 max.	11	500	6000 min.	0201
LQP03TN5N6J00	5.6 ±5%	500	140	0.68 max.	11	500	6000 min.	0201
LQP03TN6N8J00	6.8 ±5%	500	130	0.75 max.	11	500	6000 min.	0201
LQP03TN8N2J00	8.2 ±5%	500	110	0.86 max.	11	500	5500 min.	0201
LQP03TN10NJ00	10 ±5%	500	100	1.10 max.	11	500	4500 min.	0201
LQP03TN12NJ00	12 ±5%	500	90	1.25 max.	11	500	3700 min.	0201
LQP03TN15NJ00	15 ±5%	500	90	1.50 max.	11	500	3300 min.	0201
LQP03TN18NJ00	18 ±5%	500	80	2.0 max.	11	500	3100 min.	0201
LQP03TN22NJ00	22 ±5%	500	70	2.6 max.	11	500	2800 min.	0201
LQP03TN27NJ00	27 ±5%	500	70	3.1 max.	11	500	2500 min.	0201

Operating Temp. Range : -40°C to +85°C

■ Q-Frequency Characteristics



■ Inductance-Frequency Characteristics

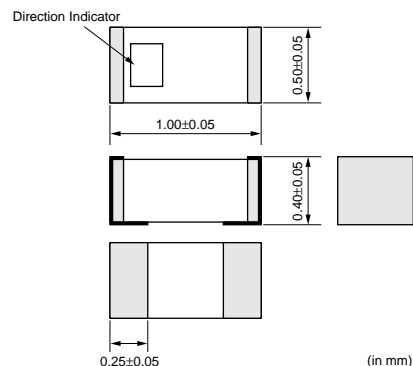


LQP15T Series

The LQP15T series offer High Q value, tight inductance tolerance with small/thin package using Murata's original film engineering technology.

■ Features

1. High Q value
2. Tight inductance tolerance(+0.2nH, +-3%)
3. Ultra small and tight size(1005size, Width 0.04mm)
4. Low DC resistance
5. Lead is no contained in the products.



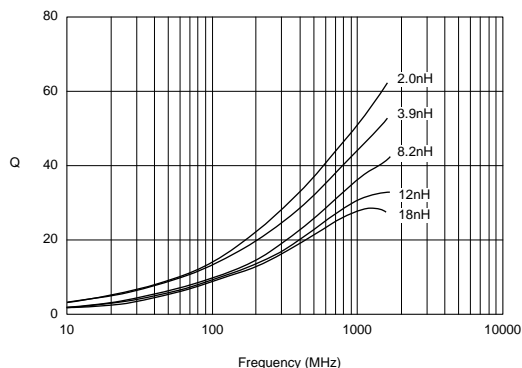
■ Applications

- High frequency circuits of Wirelesscommunication equipments.
- High frequency module such as PA, RF module for hand held phone.

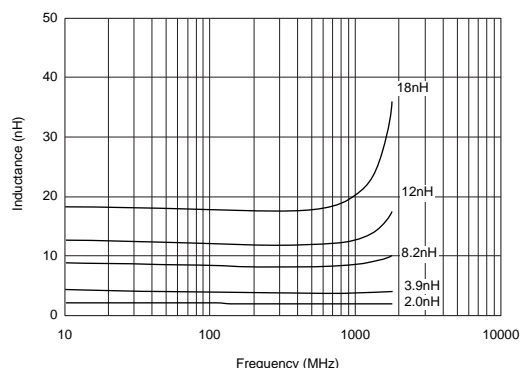
Part Number	Inductance (nH)	Test Frequency (MHz)	Rated Current (mA)	DC Resistance (ohm)	Q (min.)	Test Frequency (MHz)	Self Resonance Frequency (MHz)	EIA
LQP15TN2N0C02	2.0 ±0.2nH	500	220	0.2 max.	17	500	6000 min.	0402
LQP15TN2N2C02	2.2 ±0.2nH	500	220	0.2 max.	17	500	6000 min.	0402
LQP15TN2N4C02	2.4 ±0.2nH	500	220	0.2 max.	17	500	6000 min.	0402
LQP15TN2N7C02	2.7 ±0.2nH	500	220	0.2 max.	17	500	6000 min.	0402
LQP15TN3N3C02	3.3 ±0.2nH	500	190	0.3 max.	17	500	5500 min.	0402
LQP15TN3N6C02	3.6 ±0.2nH	500	170	0.4 max.	17	500	5500 min.	0402
LQP15TN3N9C02	3.9 ±0.2nH	500	170	0.4 max.	17	500	5500 min.	0402
LQP15TN4N7C02	4.7 ±0.2nH	500	160	0.5 max.	17	500	5000 min.	0402
LQP15TN5N6C02	5.6 ±0.2nH	500	140	0.6 max.	17	500	4500 min.	0402
LQP15TN6N8H02	6.8 ±3%	500	130	0.7 max.	17	500	3500 min.	0402
LQP15TN8N2H02	8.2 ±3%	500	110	0.8 max.	17	500	3000 min.	0402
LQP15TN10NH02	10 ±3%	500	100	1.0 max.	17	500	2500 min.	0402
LQP15TN12NH02	12 ±3%	500	90	1.0 max.	17	500	2500 min.	0402
LQP15TN15NH02	15 ±3%	500	90	1.3 max.	17	500	2000 min.	0402
LQP15TN18NH02	18 ±3%	500	80	1.5 max.	17	500	1500 min.	0402

Operating Temp. Range : -40°C to +85°C

■ Q-Frequency Characteristics



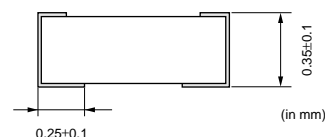
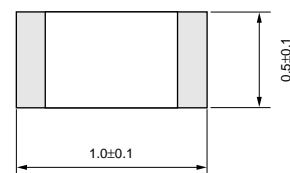
■ Inductance-Frequency Characteristics



LQP15M Series

■ Features

1. Tight inductance tolerance (+-0.05nH, +-0.1nH, +-2%) realized by Murata's original film technology. Various inductance values enable to assemble with no tuning.
2. Ultra small size 0402 inductor which is low profile and lightest weight in the world enables to miniaturize mobile telecommunication equipment. Weight: LQP15M series 0.61mg/pcs. <-- --> Multilayer Type Inductor 0.94mg/pcs.
3. High Q at high frequency range.
4. High self resonant frequency due to low stray capacitance and close inductance distribution provide stable inductance in high frequency circuit such as telecommunication equipment.



■ Applications

High frequency circuit of telecommunication equipment, such as DECT, PHS, PCS, PCN, GSM, DCS and CDMA.


Impedance Matching -- Power-AMP Module(PA)

SAW filter


Resonance circuits -- VCO

Part Number	Inductance (nH)	Test Frequency (MHz)	Rated Current (mA)	DC Resistance (ohm)	Q (min.)	Test Frequency (MHz)	Self Resonance Frequency (MHz)	EIA
LQP15MN1N0B02	1.0 ±0.1nH	500	400	0.1 max.	13	500	6000 min.	0402
LQP15MN1N0C02	1.0 ±0.2nH	500	400	0.1 max.	13	500	6000 min.	0402
LQP15MN1N0W02	1.0 ±0.05nH	500	400	0.1 max.	13	500	6000 min.	0402
LQP15MN1N1B02	1.1 ±0.1nH	500	390	0.1 max.	13	500	6000 min.	0402
LQP15MN1N1C02	1.1 ±0.2nH	500	390	0.1 max.	13	500	6000 min.	0402
LQP15MN1N1W02	1.1 ±0.05nH	500	390	0.1 max.	13	500	6000 min.	0402
LQP15MN1N2B02	1.2 ±0.1nH	500	390	0.1 max.	13	500	6000 min.	0402
LQP15MN1N2C02	1.2 ±0.2nH	500	390	0.1 max.	13	500	6000 min.	0402
LQP15MN1N2W02	1.2 ±0.05nH	500	390	0.1 max.	13	500	6000 min.	0402
LQP15MN1N3B02	1.3 ±0.1nH	500	280	0.2 max.	13	500	6000 min.	0402
LQP15MN1N3C02	1.3 ±0.2nH	500	280	0.2 max.	13	500	6000 min.	0402
LQP15MN1N3W02	1.3 ±0.05nH	500	280	0.2 max.	13	500	6000 min.	0402
LQP15MN1N4W02	1.4 ±0.05nH	500	280	0.2 max.	13	500	6000 min.	0402
LQP15MN1N5B02	1.5 ±0.1nH	500	280	0.2 max.	13	500	6000 min.	0402
LQP15MN1N5C02	1.5 ±0.2nH	500	280	0.2 max.	13	500	6000 min.	0402
LQP15MN1N5W02	1.5 ±0.05nH	500	280	0.2 max.	13	500	6000 min.	0402
LQP15MN1N6B02	1.6 ±0.1nH	500	220	0.3 max.	13	500	6000 min.	0402
LQP15MN1N6C02	1.6 ±0.2nH	500	220	0.3 max.	13	500	6000 min.	0402
LQP15MN1N6W02	1.6 ±0.05nH	500	220	0.3 max.	13	500	6000 min.	0402
LQP15MN1N7W02	1.7 ±0.05nH	500	280	0.2 max.	13	500	6000 min.	0402
LQP15MN1N8B02	1.8 ±0.1nH	500	280	0.2 max.	13	500	6000 min.	0402
LQP15MN1N8C02	1.8 ±0.2nH	500	280	0.2 max.	13	500	6000 min.	0402
LQP15MN1N8W02	1.8 ±0.05nH	500	280	0.2 max.	13	500	6000 min.	0402
LQP15MN1N9W02	1.9 ±0.05nH	500	220	0.3 max.	13	500	6000 min.	0402
LQP15MN2N0B02	2.0 ±0.1nH	500	220	0.3 max.	13	500	6000 min.	0402
LQP15MN2N0C02	2.0 ±0.2nH	500	220	0.3 max.	13	500	6000 min.	0402
LQP15MN2N0W02	2.0 ±0.05nH	500	220	0.3 max.	13	500	6000 min.	0402
LQP15MN2N1W02	2.1 ±0.05nH	500	220	0.3 max.	13	500	6000 min.	0402
LQP15MN2N2B02	2.2 ±0.1nH	500	220	0.3 max.	13	500	6000 min.	0402
LQP15MN2N2C02	2.2 ±0.2nH	500	220	0.3 max.	13	500	6000 min.	0402
LQP15MN2N2W02	2.2 ±0.05nH	500	220	0.3 max.	13	500	6000 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
LQP15MN2N3W02	2.3 ±0.05nH	500	220	0.3 max.	13	500	6000 min.	0402
LQP15MN2N4B02	2.4 ±0.1nH	500	220	0.3 max.	13	500	6000 min.	0402
LQP15MN2N4C02	2.4 ±0.2nH	500	220	0.3 max.	13	500	6000 min.	0402
LQP15MN2N4W02	2.4 ±0.05nH	500	220	0.3 max.	13	500	6000 min.	0402
LQP15MN2N5W02	2.5 ±0.05nH	500	220	0.3 max.	13	500	6000 min.	0402
LQP15MN2N6W02	2.6 ±0.05nH	500	220	0.3 max.	13	500	6000 min.	0402
LQP15MN2N7B02	2.7 ±0.1nH	500	220	0.3 max.	13	500	6000 min.	0402
LQP15MN2N7C02	2.7 ±0.2nH	500	220	0.3 max.	13	500	6000 min.	0402
LQP15MN2N7W02	2.7 ±0.05nH	500	220	0.3 max.	13	500	6000 min.	0402
LQP15MN2N8W02	2.8 ±0.05nH	500	190	0.4 max.	13	500	6000 min.	0402
LQP15MN2N9W02	2.9 ±0.05nH	500	190	0.4 max.	13	500	6000 min.	0402
LQP15MN3N0B02	3.0 ±0.1nH	500	190	0.4 max.	13	500	6000 min.	0402
LQP15MN3N0C02	3.0 ±0.2nH	500	190	0.4 max.	13	500	6000 min.	0402
LQP15MN3N0W02	3.0 ±0.05nH	500	190	0.4 max.	13	500	6000 min.	0402
LQP15MN3N1W02	3.1 ±0.05nH	500	190	0.4 max.	13	500	6000 min.	0402
LQP15MN3N2W02	3.2 ±0.05nH	500	190	0.4 max.	13	500	6000 min.	0402
LQP15MN3N3B02	3.3 ±0.1nH	500	190	0.4 max.	13	500	6000 min.	0402
LQP15MN3N3C02	3.3 ±0.2nH	500	190	0.4 max.	13	500	6000 min.	0402
LQP15MN3N3W02	3.3 ±0.05nH	500	190	0.4 max.	13	500	6000 min.	0402
LQP15MN3N4W02	3.4 ±0.05nH	500	170	0.5 max.	13	500	6000 min.	0402
LQP15MN3N5W02	3.5 ±0.05nH	500	170	0.5 max.	13	500	6000 min.	0402
LQP15MN3N6B02	3.6 ±0.1nH	500	170	0.5 max.	13	500	6000 min.	0402
LQP15MN3N6C02	3.6 ±0.2nH	500	170	0.5 max.	13	500	6000 min.	0402
LQP15MN3N6W02	3.6 ±0.05nH	500	170	0.5 max.	13	500	6000 min.	0402
LQP15MN3N7W02	3.7 ±0.05nH	500	170	0.5 max.	13	500	6000 min.	0402
LQP15MN3N8W02	3.8 ±0.05nH	500	170	0.5 max.	13	500	6000 min.	0402
LQP15MN3N9B02	3.9 ±0.1nH	500	170	0.5 max.	13	500	6000 min.	0402
LQP15MN3N9C02	3.9 ±0.2nH	500	170	0.5 max.	13	500	6000 min.	0402
LQP15MN3N9W02	3.9 ±0.05nH	500	170	0.5 max.	13	500	6000 min.	0402
LQP15MN4N3B02	4.3 ±0.1nH	500	160	0.6 max.	13	500	6000 min.	0402
LQP15MN4N3C02	4.3 ±0.2nH	500	160	0.6 max.	13	500	6000 min.	0402
LQP15MN4N7B02	4.7 ±0.1nH	500	160	0.6 max.	13	500	6000 min.	0402
LQP15MN4N7C02	4.7 ±0.2nH	500	160	0.6 max.	13	500	6000 min.	0402
LQP15MN5N1B02	5.1 ±0.1nH	500	140	0.7 max.	13	500	6000 min.	0402
LQP15MN5N1C02	5.1 ±0.2nH	500	140	0.7 max.	13	500	6000 min.	0402
LQP15MN5N6B02	5.6 ±0.1nH	500	140	0.7 max.	13	500	6000 min.	0402
LQP15MN5N6C02	5.6 ±0.2nH	500	140	0.7 max.	13	500	6000 min.	0402
LQP15MN6N2B02	6.2 ±0.1nH	500	130	0.9 max.	13	500	6000 min.	0402
LQP15MN6N2C02	6.2 ±0.2nH	500	130	0.9 max.	13	500	6000 min.	0402
LQP15MN6N8B02	6.8 ±0.1nH	500	130	0.9 max.	13	500	6000 min.	0402
LQP15MN6N8C02	6.8 ±0.2nH	500	130	0.9 max.	13	500	6000 min.	0402
LQP15MN7N5B02	7.5 ±0.1nH	500	110	1.1 max.	13	500	5500 min.	0402
LQP15MN7N5C02	7.5 ±0.2nH	500	110	1.1 max.	13	500	5500 min.	0402
LQP15MN8N2B02	8.2 ±0.1nH	500	110	1.1 max.	13	500	5500 min.	0402
LQP15MN8N2C02	8.2 ±0.2nH	500	110	1.1 max.	13	500	5500 min.	0402
LQP15MN9N1B02	9.1 ±0.1nH	500	100	1.3 max.	13	500	4500 min.	0402
LQP15MN9N1C02	9.1 ±0.2nH	500	100	1.3 max.	13	500	4500 min.	0402
LQP15MN10NG02	10 ±2%	500	100	1.3 max.	13	500	4500 min.	0402
LQP15MN10NJ02	10 ±5%	500	100	1.3 max.	13	500	4500 min.	0402
LQP15MN12NG02	12 ±2%	500	90	1.6 max.	13	500	3700 min.	0402
LQP15MN12NJ02	12 ±5%	500	90	1.6 max.	13	500	3700 min.	0402
LQP15MN15NG02	15 ±2%	500	90	1.8 max.	13	500	3300 min.	0402
LQP15MN15NJ02	15 ±5%	500	90	1.8 max.	13	500	3300 min.	0402
LQP15MN18NG02	18 ±2%	500	80	2.0 max.	13	500	3100 min.	0402
LQP15MN18NJ02	18 ±5%	500	80	2.0 max.	13	500	3100 min.	0402
LQP15MN22NG02	22 ±2%	500	70	2.6 max.	13	500	2800 min.	0402
LQP15MN22NJ02	22 ±5%	500	70	2.6 max.	13	500	2800 min.	0402

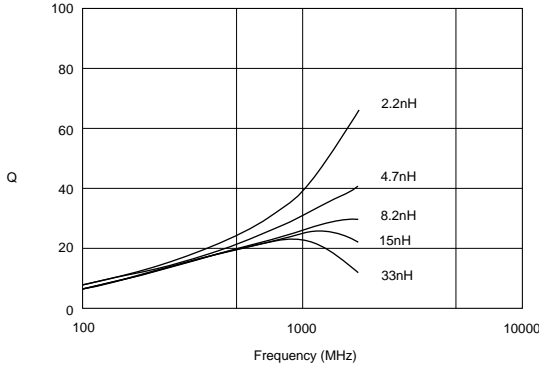
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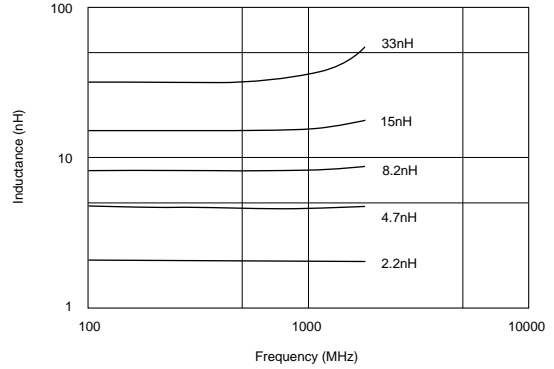
Part Number	Inductance (nH)	Test Frequency (MHz)	Rated Current (mA)	DC Resistance (ohm)	Q (min.)	Test Frequency (MHz)	Self Resonance Frequency (MHz)	EIA
LQP15MN27NG02	27 ±2%	500	70	3.1 max.	13	500	2500 min.	0402
LQP15MN27NJ02	27 ±5%	500	70	3.1 max.	13	500	2500 min.	0402
LQP15MN33NG02	33 ±2%	500	60	3.8 max.	13	500	2100 min.	0402
LQP15MN33NJ02	33 ±5%	500	60	3.8 max.	13	500	2100 min.	0402

Operating Temp. Range : -40°C to +85°C

■ Q-Frequency Characteristics



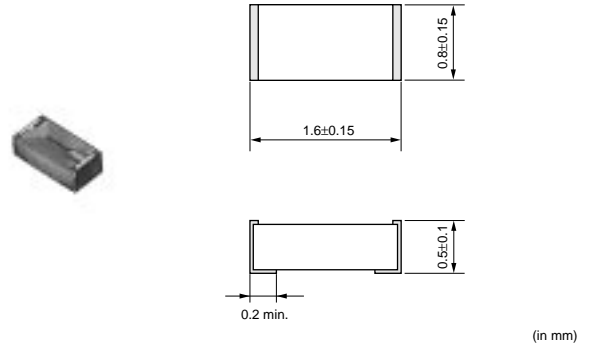
■ Inductance-Frequency Characteristics



LQP18M Series

■ Features

1. Tight inductance tolerance (+-0.2nH, +-2%) realized by Murata's original film technology. Various inductance values enable to assemble with no tuning.
2. Small size of LQP18M series is suitable for small hand held equipment, especially for card size equipment.
3. High Q at high frequency range.
4. High self resonant frequency due to low stray capacitance and close inductance distribution provide stable inductance in high frequency circuit such as telecommunication equipment.



■ Applications

High frequency circuit of telecommunication equipment, such as DECT, PHS, PCS, PCN, GSM, DCS and CDMA.
 Impedance Matching -- Power-AMP Module(PA)
 SAW filter
 Resonance circuits -- VCO

Part Number	Inductance (nH)	Test Frequency (MHz)	Rated Current (mA)	DC Resistance (ohm)	Q (min.)	Test Frequency (MHz)	Self Resonance Frequency (MHz)	EIA
LQP18MN1N3C00	1.3 ±0.2nH	500	300	0.3 max.	17	500	6000 min.	0603
LQP18MN1N5C00	1.5 ±0.2nH	500	300	0.3 max.	17	500	6000 min.	0603
LQP18MN1N8C00	1.8 ±0.2nH	500	250	0.4 max.	17	500	6000 min.	0603
LQP18MN2N2C00	2.2 ±0.2nH	500	250	0.4 max.	17	500	6000 min.	0603
LQP18MN2N7C00	2.7 ±0.2nH	500	250	0.4 max.	17	500	6000 min.	0603
LQP18MN3N3C00	3.3 ±0.2nH	500	250	0.4 max.	17	500	6000 min.	0603
LQP18MN3N9C00	3.9 ±0.2nH	500	200	0.5 max.	17	500	5900 min.	0603
LQP18MN4N7C00	4.7 ±0.2nH	500	200	0.5 max.	17	500	5200 min.	0603
LQP18MN5N6C00	5.6 ±0.2nH	500	200	0.6 max.	17	500	4700 min.	0603
LQP18MN6N8C00	6.8 ±0.2nH	500	200	0.7 max.	17	500	4300 min.	0603
LQP18MN8N2C00	8.2 ±0.2nH	500	150	0.8 max.	17	500	3600 min.	0603

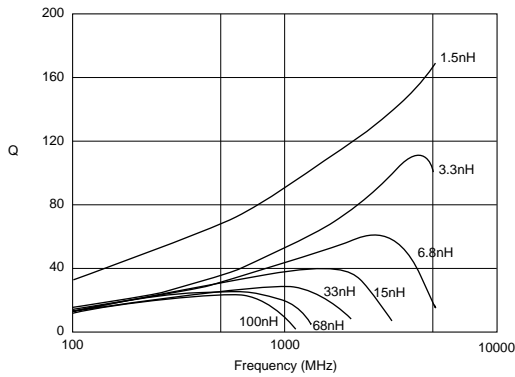
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Part Number	Inductance (nH)	Test Frequency (MHz)	Rated Current (mA)	DC Resistance (ohm)	Q (min.)	Test Frequency (MHz)	Self Resonance Frequency (MHz)	EIA
LQP18MN10NG00	10 ±2%	500	150	1.0 max.	17	500	3400 min.	0603
LQP18MN12NG00	12 ±2%	500	150	1.0 max.	17	500	3000 min.	0603
LQP18MN15NG00	15 ±2%	500	150	1.3 max.	17	500	2700 min.	0603
LQP18MN18NG00	18 ±2%	500	100	1.5 max.	17	500	2300 min.	0603
LQP18MN22NG00	22 ±2%	500	100	1.9 max.	17	500	2100 min.	0603
LQP18MN27NG00	27 ±2%	500	100	2.4 max.	17	500	1900 min.	0603
LQP18MN33NG00	33 ±2%	500	100	2.8 max.	17	500	1700 min.	0603
LQP18MN39NG00	39 ±2%	500	100	2.8 max.	17	500	1400 min.	0603
LQP18MN47NG00	47 ±2%	500	100	2.2 max.	17	300	1200 min.	0603
LQP18MN56NG00	56 ±2%	500	50	3.4 max.	17	300	1000 min.	0603
LQP18MN68NG00	68 ±2%	500	50	3.5 max.	17	300	900 min.	0603
LQP18MN82NG00	82 ±2%	500	50	4.6 max.	17	300	800 min.	0603
LQP18MNR10G00	100 ±2%	500	50	6.1 max.	17	300	700 min.	0603

Operating Temp. Range : -40°C to +85°C

■ Q-Frequency Characteristics



■ Inductance-Frequency Characteristics

