

LQP10A/11A Series



The LQP Series is comprised of chip coils with a tight inductance tolerance, $\pm 2\%$, achieved in a small chip area. Murata achieves this by forming the coil with precision film technology.

This coil is excellent in the high-frequency circuits of telecommunication equipment.

FEATURES

- Tight tolerance enables assembly without tuning.
- High SRF due to low stray capacitance provides stable inductance in high frequency circuits.
- External electrodes with nickel barrier structure provide excellent solder heat resistance.

PART NUMBERING SYSTEM

TYPE	SIZE	CORE MATERIAL	INDUCTANCE CODE	TOLERANCE	ELECTRODE MATERIAL	UNMARKED
LQP: Printed Thin Film	10: 1.0 x 0.5mm (0402) 11: 1.6 x 0.8mm (0603)	A: Air Core	4N7: 4.7nH 15N: 15nH R10: 100nH	G: $\pm 2\%$ C: $\pm 0.2nH$	04: Ni + Ag 00: Ni + Solder	

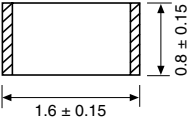
*LQP10A/11A require "T1" instead of "M00"

SPECIFICATIONS

Dimensions: mm	Part Number	Inductance			Q			DC Resistance (Ohms max.)	Self-resonant Frequency (MHz min.)	Allowable Current (mA)	Operating Temp. Range
		Nominal Value (nH)	Tolerance	Test Frequency (MHz)	Typ. @ 1GHz	Min. Value	Test Frequency (MHz)				
	*LQP10A1N0B(C)00	1.0	$\pm 0.1nH$ ($\pm 0.2nH$)	500	50	13	500	0.1	6000	400	-40°C ~ +85°C
	*LQP10A1N1B(C)00	1.1			50			0.1	6000	390	
	*LQP10A1N2B(C)00	1.2			50			0.1	6000	390	
	*LQP10A1N3B(C)00	1.3			45			0.2	6000	280	
	*LQP10A1N5B(C)00	1.5			45			0.2	6000	280	
	*LQP10A1N6B(C)00	1.6			45			0.3	6000	220	
	*LQP10A1N8B(C)00	1.8			40			0.2	6000	280	
	*LQP10A2N0B(C)00	2.0			40			0.3	6000	220	
	*LQP10A2N2B(C)00	2.2			40			0.3	6000	220	
	*LQP10A2N4B(C)00	2.4			35			0.3	6000	220	
	*LQP10A2N7B(C)00	2.7			35			0.3	6000	220	
	*LQP10A3N0B(C)00	3.0			30			0.4	6000	190	
	*LQP10A3N3B(C)00	3.3			30			0.4	6000	190	
	*LQP10A3N6B(C)00	3.6			28			0.5	6000	170	
	*LQP10A3N9B(C)00	3.9			28			0.5	6000	170	
	*LQP10A4N3B(C)00	4.3			29			0.6	6000	160	
	*LQP10A4N7B(C)00	4.7			29			0.6	6000	160	
	*LQP10A5N1B(C)00	5.1			26			0.7	6000	140	
	*LQP10A5N6B(C)00	5.6			26			0.7	6000	140	
	*LQP10A6N2B(C)00	6.2			26			0.9	6000	130	
	*LQP10A6N8B(C)00	6.8			26			0.9	6000	130	
	*LQP10A7N5B(C)00	7.5			26			1.1	5500	110	
	*LQP10A8N2B(C)00	8.2			26			1.1	5500	110	
	*LQP10A9N1B(C)00	9.1			25			1.3	4500	100	
	*LQP10A10NG(J)00	10.0	$\pm 2\%$ ($\pm 5\%$)		25			1.3	4500	100	
	*LQP10A12NG(J)00	12.0			25			1.6	3700	90	
	*LQP10A15NG(J)00	15.0			25			1.8	3300	90	
	*LQP10A18NG(J)00	18.0			22			2.0	3100	80	
	*LQP10A22NG(J)00	22.0			21			2.6	2800	70	
	*LQP10A27NG(J)00	27.0			21			3.1	2500	70	
	*LQP10A33NG(J)00	33.0			21			3.8	2100	60	

* Available as standard through authorized Murata Electronics Distributors.

SPECIFICATIONS

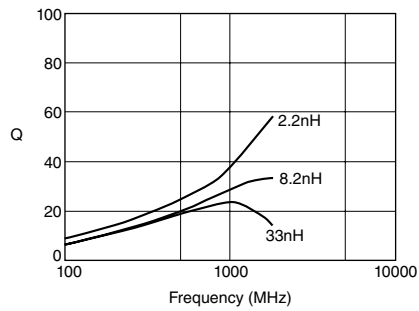
Dimensions: mm	Part Number	Inductance			Q			DC Resistance (Ohms max.)	Self-resonant Frequency (MHz min.)	Allowable Current (mA)	Operating Temp. Range		
		Nominal Value (nH)	Tolerance	Test Frequency (MHz)	Peak Value Typ.	Min. Value	Test Frequency (MHz)						
  0.2 min.	★LQP11A1N3C00	1.3	±0.2nH	500	160	17	500	0.3	6000	300	-40°C ~ +85°C		
	★LQP11A1N5C00	1.5			140								
	★LQP11A1N8C00	1.8			120								
	★LQP11A2N2C00	2.2			100			0.4		250			
	★LQP11A2N7C00	2.7			90								
	★LQP11A3N3C00	3.3			85								
	★LQP11A3N9C00	3.9			80			0.5	5900	200			
	★LQP11A4N7C00	4.7			75				5200				
	★LQP11A5N6C00	5.6			65			0.6	4700				
	★LQP11A6N8C00	6.8			63			0.7	4300				
	★LQP11A8N2C00	8.2	±2%	500	57	17	500	0.8	3600	150			
	★LQP11A10NG00	10			55			1.0	3400				
	★LQP11A12NG00	12			50				3000				
	★LQP11A15NG00	15			43			1.3	2700				
	★LQP11A18NG00	18			39			1.5	2300	100			
	★LQP11A22NG00	22			38			1.9	2100				
	★LQP11A27NG00	27			32			2.4	1900				
	★LQP11A33NG00	33			30			2.8	1700				
	★LQP11A39NG00	39			28				1400				
	★LQP11A47NG00	47		300	26	17	300	2.2	1200	50			
	★LQP11A56NG00	56			28			3.4	1000				
	★LQP11A68NG00	68			27			3.5	900				
	★LQP11A82NG00	82			25			4.6	800				
	★LQP11AR10G00	100			25			6.1	700				

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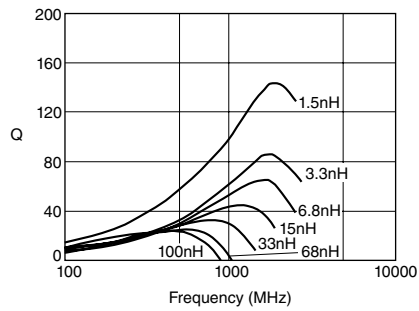
TYPICAL ELECTRICAL CHARACTERISTICS

Q-FREQUENCY CHARACTERISTICS

LQP10A

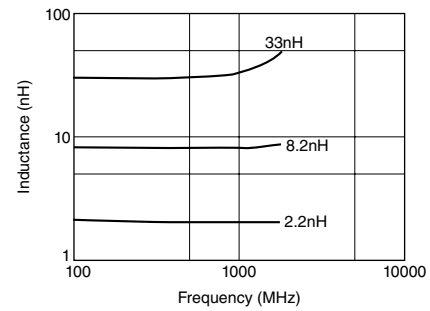


LQP11A



INDUCTANCE-FREQUENCY CHARACTERISTICS

LQP10A



LQP11A

