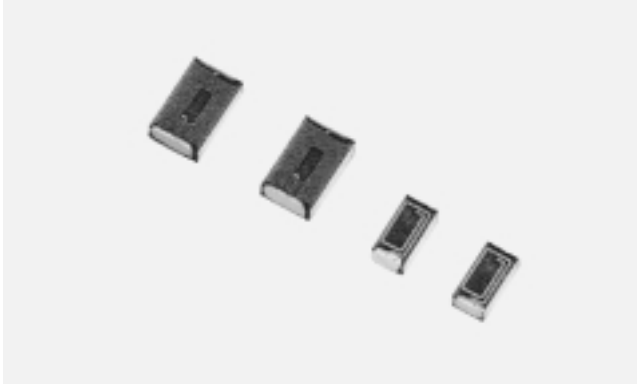


LQP10A/11A Series



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	

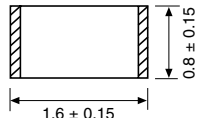
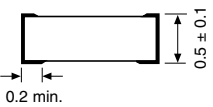
*LQP10A/11A require "T1" instead of "M00"

SPECIFICATIONS

Dimensions: mm	NEW 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	$\pm 2\%$ ($\pm 5\%$)	500	29	13	500	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			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)						
 	★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			0.4		250			
	★LQP11A2N2C00	2.2			100								
	★LQP11A2N7C00	2.7			90								
	★LQP11A3N3C00	3.3			85			0.5	5900	200			
	★LQP11A3N9C00	3.9			80				5200				
	★LQP11A4N7C00	4.7			75			0.6	4700				
	★LQP11A5N6C00	5.6			65			0.7	4300				
	★LQP11A6N8C00	6.8			63			0.8	3600				
	★LQP11A8N2C00	8.2	±2%	500	57			1.0	3400	150			
	★LQP11A10NG00	10			55			1.0	3000				
	★LQP11A12NG00	12			50				2700				
	★LQP11A15NG00	15			43			1.3	2300				
	★LQP11A18NG00	18			39			1.5	2100	100			
	★LQP11A22NG00	22			38			1.9	1900				
	★LQP11A27NG00	27			32			2.4	1700				
	★LQP11A33NG00	33			30			2.8	1400				
	★LQP11A39NG00	39			28			2.2	1200	50			
	★LQP11A47NG00	47			26		300	3.4	1000				
	★LQP11A56NG00	56			28			3.5	900				
	★LQP11A68NG00	68			27			4.6	800				
	★LQP11A82NG00	82			25			6.1	700				
	★LQP11AR10G00	100			25								

★Available as standard through authorized Murata Electronics Distributors.

SPECIFICATIONS

**DELETED
PRODUCT**

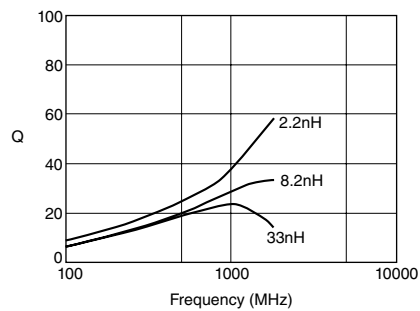
Dimensions: mm								DC Resistance (Ohms max.)	Self-resonant Frequency (MHz min.)	Allowable Current (mA)	Operating Temp. Range
0805											
								0.15		550	
								0.2	6000	500	
								0.25		450	
								0.3	5400	400	
								0.35	4500		
								0.4	4000	350	
								0.45	3400		
								0.55	2900	300	
								0.7	2500		
								0.9	2300	250	
								1.1	1800	200	
								1.5	1600		
								1.7	1500	150	
								2.9	1300		
								3.7	1200		
								4.5	1100	100	
								6.0	1000		
									900	90	
									700		

*Available as standard through authorized Murata Electronics Distributors.

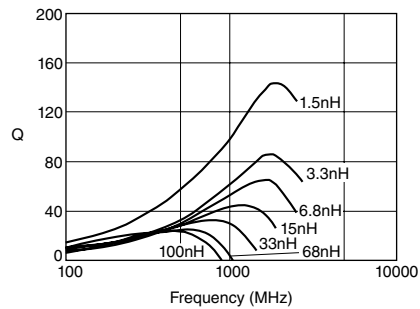
TYPICAL ELECTRICAL CHARACTERISTICS

Q-FREQUENCY CHARACTERISTICS

LQP10A

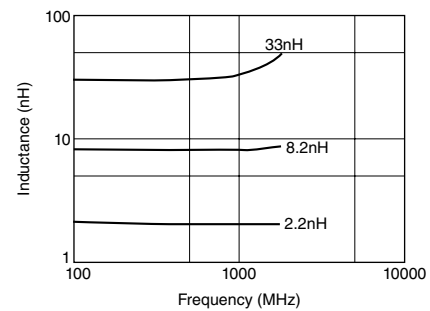


LQP11A



INDUCTANCE-FREQUENCY CHARACTERISTICS

LQP10A



LQP11A

