



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

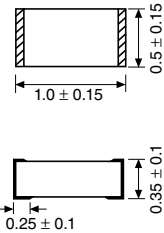
- Tight tolerance enables assembly without tuning.
- High SRF due to low stray capacitance provides stable inductance in high frequency circuits.
- External electrodes with nickel barrier structure provide excellent solder heat resistance.

PART NUMBERING SYSTEM

LQP	10	A	4N7	C	00	M00*	UNMARKED
TYPE LQP: Printed Thin Film	SIZE 10: 1.0 x 0.5mm (0402) 11: 1.6 x 0.8mm (0603)	CORE MATERIAL A: Air Core	INDUCTANCE CODE 4N7: 4.7nH 15N: 15nH R10: 100nH	TOLERANCE G: $\pm 2\%$ C: $\pm 0.2nH$	ELECTRODE MATERIAL 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			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	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.

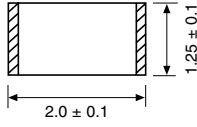
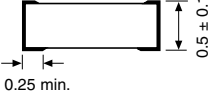
SPECIFICATIONS

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						
	*LQP11A2N2C00	2.2			100						
	*LQP11A2N7C00	2.7			90						
	*LQP11A3N3C00	3.3			85						
	*LQP11A3N9C00	3.9			80						
	*LQP11A4N7C00	4.7			75						
	*LQP11A5N6C00	5.6			65						
	*LQP11A6N8C00	6.8			63						
	*LQP11A8N2C00	8.2			57						
	*LQP11A10NG00	10			±2%			300	55	300	
	*LQP11A12NG00	12	50								
	*LQP11A15NG00	15	43								
	*LQP11A18NG00	18	39								
	*LQP11A22NG00	22	38								
	*LQP11A27NG00	27	32								
	*LQP11A33NG00	33	30								
	*LQP11A39NG00	39	28								
	*LQP11A47NG00	47	26								
	*LQP11A56NG00	56	28								
	*LQP11A68NG00	68	27								
	*LQP11A82NG00	82	25								
	*LQP11AR10G00	100			25			2.2	1200	150	
							1.0	3400			
							0.6	4700			
							0.7	4300			
							0.8	3600			
							1.3	2700			
							1.5	2300	100		
							1.9	2100			
							2.4	1900			
							2.8	1700			
							3.4	1000			
							4.6	800			
							6.1	700	50		

*Available as standard through authorized Murata Electronics Distributors.

SPECIFICATIONS

DELETED PRODUCT

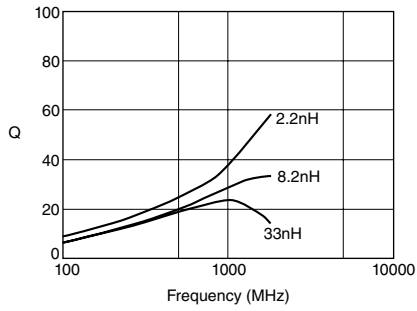
Dimensions: mm		Inductance (nH)	Q	Self-resonant Frequency (MHz)	DC Resistance (Ohms max.)	Self-resonant Frequency (MHz min.)	Allowable Current (mA)	Operating Temp. Range
 	0805	300	15	300	0.15	6000	550	-40°C ~ +85°C
	LQP21A1N8C14	1.8	250	250	0.2		500	
	*LQP21A2N2C14	2.2	200	15	0.25	450		
	*LQP21A2N7C14	2.7	150					
	*LQP21A3N3C14	3.3	125	15	0.3	400		
	*LQP21A3N9C14	3.9	120					
	*LQP21A4N7C14	4.7	115	15	0.35	350		
	*LQP21A5N6C14	5.6	110					
	*LQP21A6N8C14	6.8	100	15	0.4	300		
	*LQP21A8N2C14	8.2	95					
	*LQP21A10NG14	10	85	17	0.45	200		
	*LQP21A12NG14	12	70					
	*LQP21A15NG14	15	68	17	0.55	150		
	*LQP21A18NG14	18	60					
	*LQP21A22NG14	22	42	17	0.7	100		
	*LQP21A27NG14	27	40					
	*LQP21A33NG14	33	39	17	0.9	90		
	*LQP21A39NG14	39	36					
	*LQP21A47NG14	47	35	17	1.1	70		
	*LQP21A56NG14	56	34					
	*LQP21A68NG14	68	32	17	1.5	150		
	*LQP21A82NG14	82	31					
	*LQP21AR10G14	100	24	17	6.0	90		

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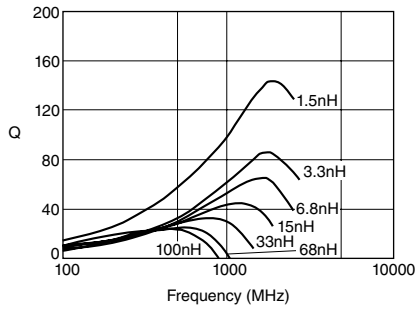
TYPICAL ELECTRICAL CHARACTERISTICS

Q-FREQUENCY CHARACTERISTICS

LQP10A

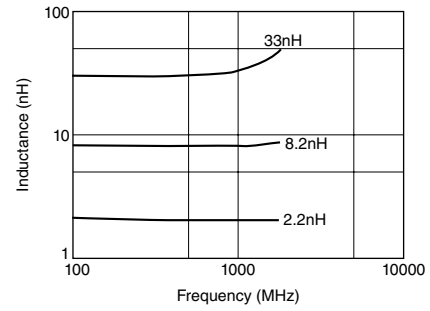


LQP11A



INDUCTANCE-FREQUENCY CHARACTERISTICS

LQP10A



LQP11A

