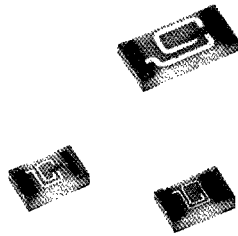


# SURFACE MOUNT INDUCTORS

## LQP21A/31 Series

The LQP21A/LQP31A series comprises 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.

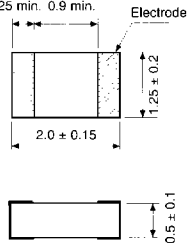
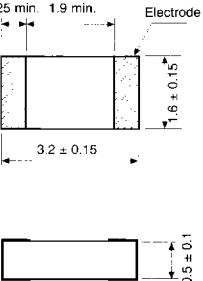
This coil is excellent in the high-frequency circuits of radio communication equipment.



### PART NUMBERING

TYPE	SIZE	CORE MATERIAL	INDUCTANCE CODE	TOLERANCE	ELECTRICAL MATERIAL	UNMARKED
LQP : Printed Thin Film	21 : 2.0 x 1.25mm (0805) 31 : 3.2 x 1.6mm (1206)	A : Alumina	4N7 : 4.7nH 15N : 15nH R10 : 100nH	G : $\pm 2\%$ J : $\pm 5\%$	04 : Nickel Alloy Metallization	

### SPECIFICATIONS

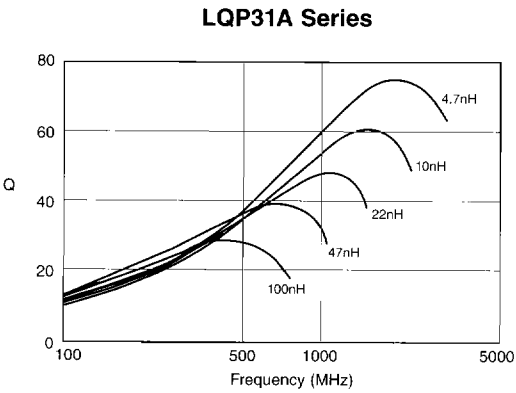
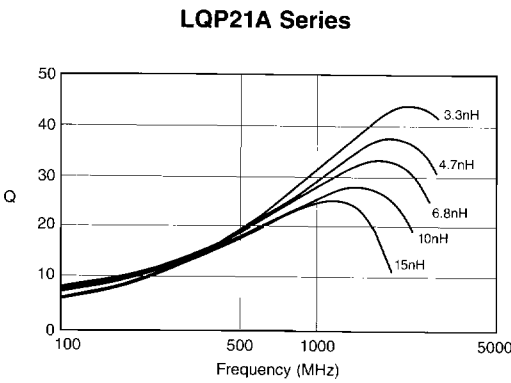
Dimensions: mm	Part Number	Inductance			Q			DC Resistance (Ω) max.	Self-resonant Frequency (MHz min.)	Allowable Current (mA)	Operating Temp. Range		
		Nominal Value (nH)	Tolerance (%)	Measurement Frequency	Peak Value (typ.)	Min. Value	Measurement Frequency (MHz)						
<b>LQP21A Series</b> 	*LQP21A3N3J04	3.3	± 5	500	44	10	500	1	2000	100	-40°C ~ +85°C		
	*LQP21A3N9J04	3.9			41								
	*LQP21A4N7J04	4.7			37								
	*LQP21A5N6J04	5.6			36								
	*LQP21A6N8J04	6.8			33								
	*LQP21A8N2J04	8.2			30								
	*LQP21A10NJ(G)04	10	± 5 (± 2)		28			2	1000				
	*LQP21A12NJ(G)04	12			27								
	*LQP21A15NJ(G)04	15			25								
<b>LQP31A Series</b> 	*LQP31A4N7J04	4.7	±5	500	69	20	500	1	2000	250	-40°C ~ +85°C		
	*LQP31A6N8J04	6.8			63								
	*LQP31A10NG(J)04	10	± 2 (± 5)		62			2	1000	230			
	*LQP31A12NG(J)04	12			53								
	*LQP31A15NG(J)04	15			48			10	200	5		850	100
	*LQP31A18NG(J)04	18			45								
	*LQP31A22NG(J)04	22			41								
	*LQP31A27NG(J)04	27			34								
	*LQP31A33NG(J)04	33	30										
	*LQP31A47NG(J)04	47	200	10	200	7	650	70					
	*LQP31A68NG(J)04	68											
	*LQP31AR10G(J)04	100											

\*Available as standard through authorized Murata Electronics Distributors.

LQP21A/31A Series

TYPICAL ELECTRICAL CHARACTERISTICS

Q-FREQUENCY CHARACTERISTICS



INDUCTANCE-FREQUENCY CHARACTERISTICS

