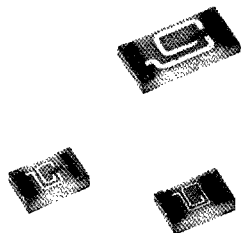


# SURFACE MOUNT INDUCTORS

## 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

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

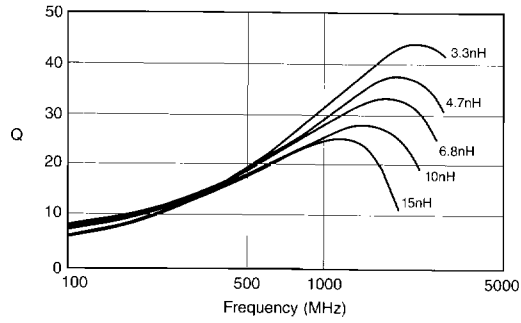
Dimensions: mm	Part Number	Inductance			Q			DC Resistance ( $\Omega$ ) max.	Self-resonant Frequency (MHz min.)	Allowable Current (mA)	Operating Temp. Range
		Nominal Value (nH)	Tolerance (%)	Measurement Frequency	Peak Value (typ.)	Min. Value	Measurement Frequency (MHz)				
<b>LQP21A Series</b> 	*LQP21A3N3J04	3.3	$\pm 5$	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	$\pm 5$ ( $\pm 2$ )	500	28	20	500	2	1000	250	-40°C ~ +85°C
	*LQP21A12NJ(G)04	12			27						
	*LQP21A15NJ(G)04	15			25						
<b>LQP31A Series</b> 	*LQP31A4N7J04	4.7	$\pm 5$	500	69	20	500	1	2000	230	-40°C ~ +85°C
	*LQP31A6N8J04	6.8			63						
	*LQP31A10NG(J)04	10	$\pm 2$ ( $\pm 5$ )	500	62	10	200	2	1000	160	-40°C ~ +85°C
	*LQP31A12NG(J)04	12			53						
	*LQP31A15NG(J)04	15			48						
	*LQP31A18NG(J)04	18			45						
	*LQP31A22NG(J)04	22	$\pm 2$ ( $\pm 5$ )	200	41	10	200	5	850	100	-40°C ~ +85°C
	*LQP31A27NG(J)04	27			34						
	*LQP31A33NG(J)04	33			30						
	*LQP31A47NG(J)04	47			30						
*LQP31A68NG(J)04	68	$\pm 2$ ( $\pm 5$ )	200	30	10	200	7	650	70	-40°C ~ +85°C	
*LQP31AR10G(J)04	100			30							

\*Available as standard through authorized Murata Electronics Distributors.

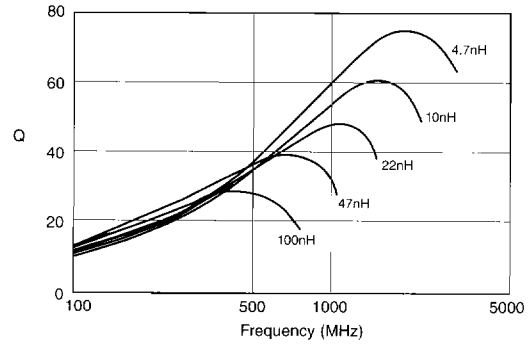
### TYPICAL ELECTRICAL CHARACTERISTICS

#### Q-FREQUENCY CHARACTERISTICS

**LQP21A Series**

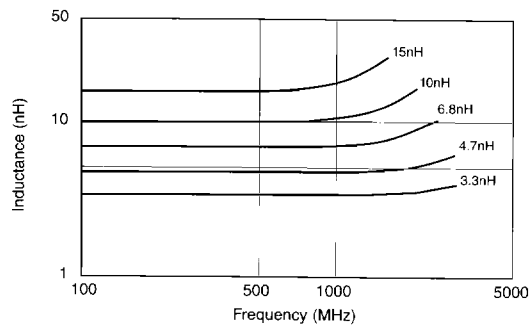


**LQP31A Series**

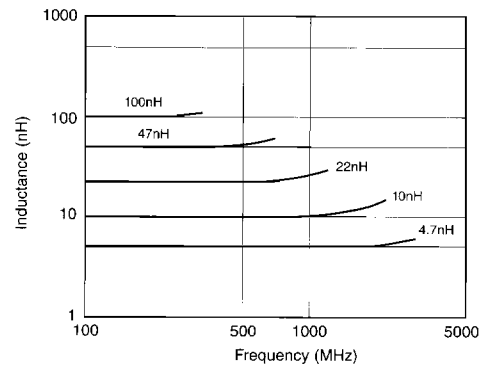


#### INDUCTANCE-FREQUENCY CHARACTERISTICS

**LQP21A Series**



**LQP31A Series**



**SURFACE MOUNT INDUCTORS**