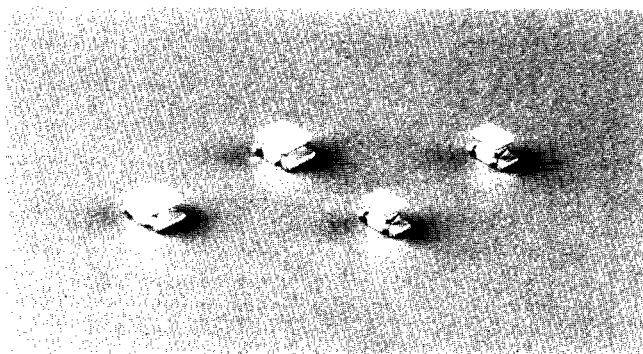


SURFACE MOUNT INDUCTORS

LQN1A/2A Series



The LQN1A and LQN2A Series are comprised of air-core chip coils having sub-miniature alumina core bobbins. These coils are excellent in high-frequency video and communication applications because of their high Q values at high frequencies and high self-resonant frequencies.

LQN1A

The sub-miniature dimensions (3.2 x 1.6 x 1.8mm) allow parallel mounting on 2.5mm centers. A high self-resonant frequency makes these coils effective for applications from 100MHz up to 3GHz.

LQN2A

This series comprises a wound type chip coil with a minimum thickness of merely 1.6mm. A high self-resonant frequency makes these coils effective for applications ranging from 100MHz up to 1,000MHz.

PART NUMBERING

LQN		1	A	23N	J	04	M00
TYPE LQN: Non-epoxy coated	SIZE 1 : 3.2 x 1.6mm (1206) 2 : 3.2 x 2.5mm (1210)		CORE MATERIAL A : Alumina	INDUCTANCE CODE 8N8 : 8.8nH 23N : 23nH R10 : 100nH	TOLERANCE J : ± 5% K : ± 10% M : ± 20%	ELECTRODE MATERIAL 04 : Nickel Alloy Metallization	MARKING M00 : Unmarked M01 : Marked

SPECIFICATIONS

Dimensions	Part Number	Inductance			Q			DC Resistance (Ω)	Self-Resonant Frequency (MHz min.)	Allowable Current (mA)	Operating Temp. Range		
		Nominal Value (nH)	Tolerance (%)	Measurement Frequency	Peak Value (typ.)	Min. Value	Measurement Frequency						
	★LQN1A8N8J(K)04	8.8	± 5 (± 10)	100MHz	100	436MHz	0.029 ± 40%	1000	750	-25°C ~ +85°C			
	★LQN1A15NJ(K)04	14.7									50	0.035 ± 40%	680
	★LQN1A17NJ(K)04	17									0.037 ± 40%	650	
	★LQN1A23NJ(K)04	23									0.046 ± 40%	590	
	★LQN1A27NJ(K)04	27									0.051 ± 40%	560	
	★LQN1A33NJ(K)04	33									0.057 ± 40%	530	
	★LQN1A39NJ(K)04	39									0.067 ± 40%	490	
	★LQN1A47NJ(K)04	47									0.110 ± 40%	380	
	★LQN1A56NJ(K)04	56									0.140 ± 40%	330	
	★LQN1A64NJ(K)04	64									0.180 ± 40%	290	
	★LQN1A84NJ(K)04	84									0.280 ± 40%	240	
	★LQN1A10J(K)04	100									0.300 ± 40%	900	230

★ Available as standard through authorized Murata Electronics Distributors.

SPECIFICATIONS

Dimensions	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					
	*LQN2A10NM(K)04	10	± 20 (± 10)	100MHz	90	30	200MHz	0.25	1000	770	-25°C ~ -85°C	
	*LQN2A18NM04	18	± 20		85	40		0.25	1000	680		
	*LQN2A22NM(K)04	22	± 20 (± 10)		80	30		0.25	1000	410		
	*LQN2A33NM(K)04	33			80	40		0.25	900	490		
	*LQN2A39NM(K)04	39			75			0.25	900	370		
	*LQN2A47NM(K)04	47			80			0.3	600	550		
	*LQN2A56NM(K)04	56			75			0.3	800	340		
	*LQN2A68NM(K)04	68			60			0.3	500	500		
	*LQN2A82NM(K)04	82			50			0.3	600	300		
	*LQN2AR10K04	100			± 10			25MHz	55	30		100MHz
	*LQN2AR12K04	120	50	0.4			350		410			
	*LQN2AR15K04	150	45	0.5		300	400					
	*LQN2AR18K04	180	45	0.5		300	370					
	*LQN2AR22K04	220	40	0.6		280	360					

*Available as standard through authorized Murata Electronics Distributors.

SURFACE MOUNT INDUCTORS

TYPICAL ELECTRICAL CHARACTERISTICS

