



The LQN21A Series consists of air-core chip coils using a subminiature alumina core as a bobbin. The High Q values at high frequencies and high self-resonant frequencies make this coil perfect for use in the high frequency circuits of communications equipment.

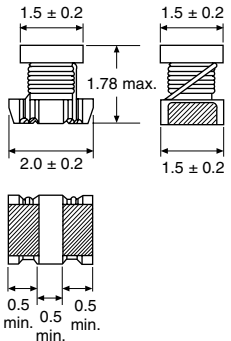
FEATURES

- LQN21A□□□□04
 - Broad inductance range
 - Inductance tolerance: $\pm 0.5\text{nH}$ ($\leq 8.2\text{nH}$); $\pm 5\%$ (10nH – 470nH)
- LQN21A
 - Tight Inductance Tolerance $\pm 2\%$
- LQN21A□□□□44
 - High Q •High Rated Current •Low DCR

PART NUMBERING SYSTEM

TYPE	SIZE	CORE MATERIAL	INDUCTANCE CODE	TOLERANCE	ELECTRODE MATERIAL	UNMARKED
LQN: Non-epoxy coated	21: 2.0 x 1.5mm (0805)	A: Air Core	3N3: 3.3nH	D: $\pm 0.5\text{nH}$ J: $\pm 5\%$ G: $\pm 2\%$	04/44: Nickel & Solder	

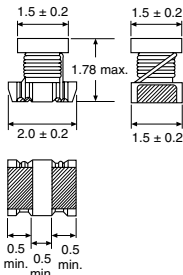
SPECIFICATIONS

Dimensions: mm	Part Number	Inductance			Peak Value (Typ.)	Q ※1		DC Resistance (Ohms max.)	※2 Self-resonant Frequency (MHz min.)	Allowable Current (mA)	Operating Temp. Range		
		Nominal Value (nH)	Tolerance	Test Frequency (MHz)		Minimum Value							
						Q Value	Test Frequency (MHz)						
LQN21A□□□□04 0805 	★LQN21A3N3D04	3.3	±0.5nH	100	10	20	0.05	6000	910	-25°C ~ +85°C			
	★LQN21A6N8D04	6.8			70		0.11	5400	680				
	★LQN21A8N2D04	8.2			20		0.12	3900	630				
	★LQN21A10NJ04	10			80		0.03	3300	1320				
	★LQN21A12NJ04	12	±5%		30	250	0.11	3200	680				
	★LQN21A15NJ04	15					0.12	2700	630				
	★LQN21A18NJ04	18					0.10	2600	690				
	★LQN21A22NJ04	22					0.09	2100	720				
	★LQN21A27NJ04	27			70	40	200	0.17	2300		540		
	★LQN21A33NJ04	33						0.15	1900		570		
	★LQN21A39NJ04	39						0.09	1700		730		
	★LQN21A47NJ04	47						0.23	1600		450		
	★LQN21A56NJ04	56			150	0.26	1500	430					
	★LQN21A68NJ04	68				0.23	1200	460					
	★LQN21A82NJ04	82				0.42	1100	320					
	★LQN21AR10J04	100				0.38	900	350					
	★LQN21AR12J04	120				0.40	750	320					
	★LQN21AR15J04	150			30	100	0.47	350	390				
	★LQN21AR18J04	180	0.71	700			250						
	★LQN21AR22J04	220	50	15	25.2	0.70	500	240					
	★LQN21AR27K04	270				2.00	550	190					
	★LQN21AR33K04	330				2.20	500	180					
	★LQN21AR39K04	390				2.50	400	170					
	★LQN21AR47K04	470				2.80	350	160					
	Tight Tolerance												
	★LQN21A33NG04	33	±2%	100	70	10	20	0.15	1900		570	-25°C ~ +85°C	
	★LQN21A33NG04	39				0.09		1700	730				
	★LQN21A33NG04	47				0.23		1600	450				
	★LQN21A33NG04	56				0.26		1500	430				
	★LQN21A33NG04	68			65	30	250	0.23	1200		460		
	★LQN21A33NG04	82						0.42	1100		320		
	★LQN21AR10G04	100						0.55	900		270		
	★LQN21AR12G04	120			70	250	0.40	750	320				
	★LQN21AR15G04	150					0.68	350	260				
	★LQN21AR18G04	180					0.71	700	250				
	★LQN21AR22G04	220			80	0.02	500	240					

※1: Measured with LCR meter YHP4191A, measuring tap 16193A. ※2: Measured with Network Analyzer HP8753C.

★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)	Nominal Value (min.)	Test Frequency (MHz)	800 MHz (Typ.)	1.5 GHz (Typ.)				
LQN21A□□□□44 	★LQN21A2N7D44	2.7	±0.5nH	100	20	85	120	0.02	6000	1900	-25°C ~ +85°C	
	★LQN21A3N1D44	3.1					110			1800		
	★LQN21A3N3D44	3.3								1700		
	★LQN21A5N6D44	5.6								1500		
	★LQN21A6N8D44	6.8								1400		
	★LQN21A8N6D44	8.6	±5%		35	250	100	0.03	3900	1300		
	★LQN21A10NJ44	10					85	90	3300	1320		
	★LQN21A12NK44	12	±10%		40	100	90	0.04	3200	1100		
	★LQN21A15NK44	15							3100	1000		
	★LQN21A18NK44	18.8							2600			
	★LQN21A21NK44	21					65	0.05	2200	950		
	★LQN21A27NK44	27							95	45		0.06

※1: Measured with LCR meter YHP4191A, measuring tap 16193A.
※2: Measured with Network Analyzer HP8753C.
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TYPICAL ELECTRICAL CHARACTERISTICS

