



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.

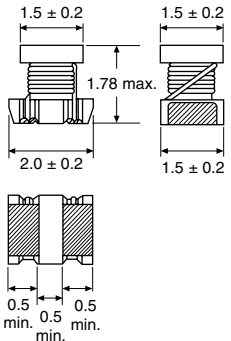
FEATURES

- 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	

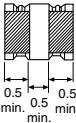
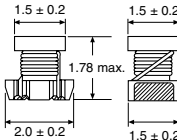
SPECIFICATIONS

Dimensions: mm	Part Number	Inductance			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)	Peak Value (Typ.)	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			80		0.12	3900	630						
	★LQN21A10NJ04	10			80		0.03	3300	1320						
	★LQN21A12NJ04	12	±5%		65	30	250	0.11	3200		680				
	★LQN21A15NJ04	15						0.12	2700		630				
	★LQN21A18NJ04	18						0.10	2600		690				
	★LQN21A22NJ04	22			70		0.09	2100	720						
	★LQN21A27NJ04	27					0.17	2300	540						
	★LQN21A33NJ04	33			65	40	200	0.15	1900		570				
	★LQN21A39NJ04	39			80			0.09	1700		730				
	★LQN21A47NJ04	47			65			0.23	1600		450				
	★LQN21A56NJ04	56			70			0.26	1500		430				
	★LQN21A68NJ04	68			65			0.23	1200		460				
	★LQN21A82NJ04	82			60			0.42	1100		320				
	★LQN21AR10J04	100			70			150	0.38		900	350			
	★LQN21AR12J04	120			50	0.40	750		320						
	★LQN21AR15J04	150			45	30	0.47		350		390				
	★LQN21AR18J04	180			±10%	10	50	15	25.2		0.71	700	250		
	★LQN21AR22J04	220									35	100	0.70	500	240
	★LQN21AR27K04	270									10	25.2	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	0.15	1900	570		-25°C ~ +85°C				
	★LQN21A33NG04	39					0.09	1700	730						
	★LQN21A33NG04	47				20	0.23	1600	450						
	★LQN21A33NG04	56					0.26	1500	430						
	★LQN21A33NG04	68			80	65	30	250	0.23			1200	460		
	★LQN21A33NG04	82			0.42				1100			320			
	★LQN21AR10G04	100			70		0.55	900	270						
★LQN21AR12G04	120	0.40					750	320							
★LQN21AR15G04	150	65				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	250	85	120	0.02	6000	1900	-25°C ~ +85°C				
	★LQN21A3N1D44	3.1						110			1800					
	★LQN21A3N3D44	3.3						115			1700					
	★LQN21A5N6D44	5.6						100			1500					
	★LQN21A6N8D44	6.8						95			1400					
	★LQN21A8N6D44	8.6	±5%		35		85	100	0.03	3900	1300					
	★LQN21A10NJ44	10						90			1320					
	★LQN21A12NK44	12	±10%		40		105	90	0.04	3200	1100					
	★LQN21A15NK44	15						75			0.05		2600	1000		
	★LQN21A18NK44	18.8												65	2200	950
	★LQN21A21NK44	21							45	0.06						1800
	★LQN21A27NK44	27														

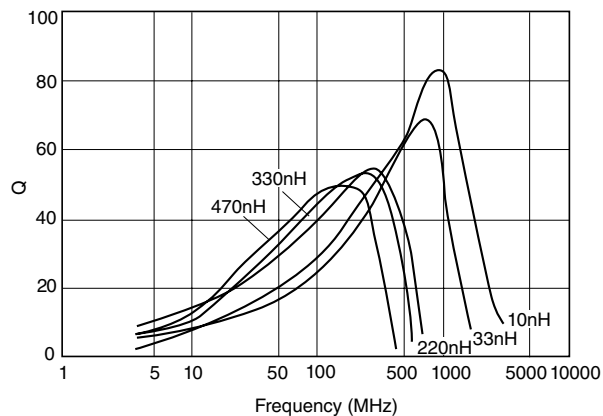
※1: Measured with LCR meter YHP4191A, measuring tap 16193A.

※2: Measured with Network Analyzer HP8753C.

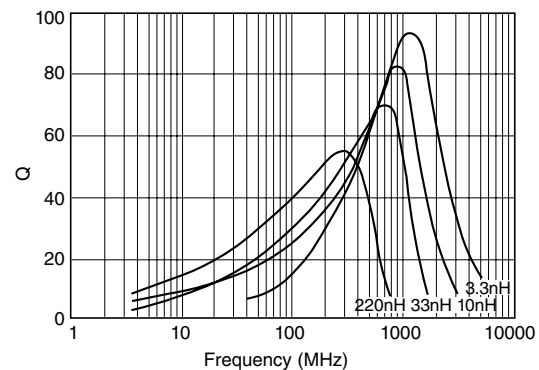
★Available as standard through authorized Murata Electronics Distributors.

TYPICAL ELECTRICAL CHARACTERISTICS

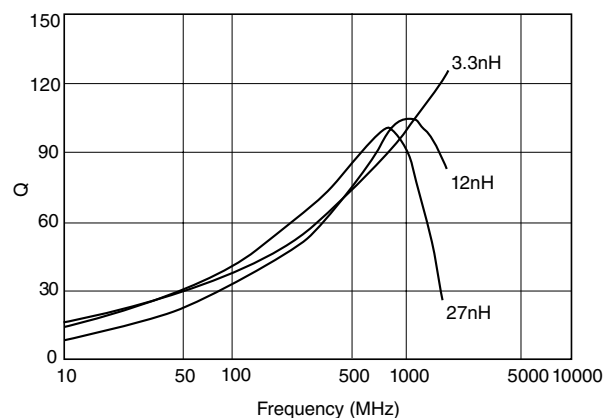
Q-FREQUENCY CHARACTERISTICS
LQN21A□□□□04



Q-FREQUENCY CHARACTERISTICS
LQN21A (Tight Inductance Tolerance)



LQN21A□□□□44



INDUCTANCE-FREQUENCY CHARACTERISTICS
LQN21A□□□□44

