

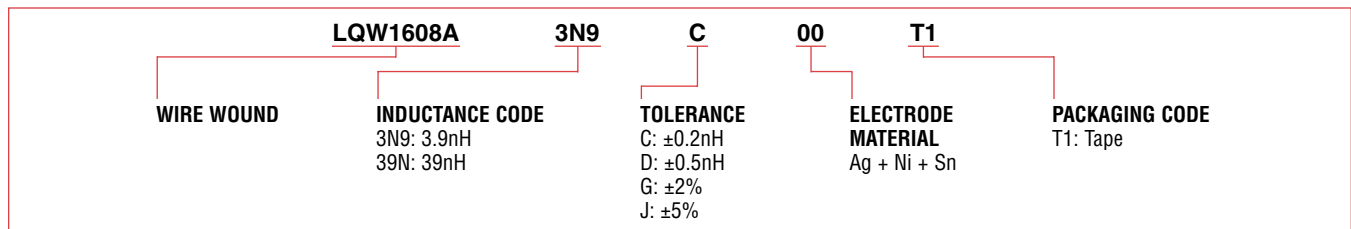


The LQW1608 Series are miniaturized surface mount inductors with an aluminum core bobbin. Murata's unique winding technology enables tight tolerances and high Q values in the high frequency range. It also minimizes stray capacitance, hence increasing the self-resonant frequency. It is suitable for high frequency circuits in telecom equipment.

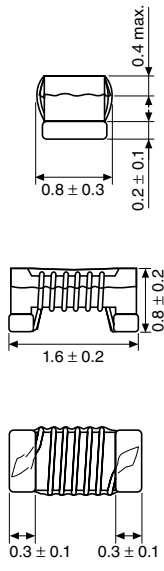
FEATURES

- Tight tolerance ($\pm 2\text{nH}$, $\pm 2\%$)
- Broad inductance range (3.9nH ~ 220nH)
- Miniature size enables high density mounting
- High Q value and stable inductance at high frequency
- Low DCR

PART NUMBERING SYSTEM

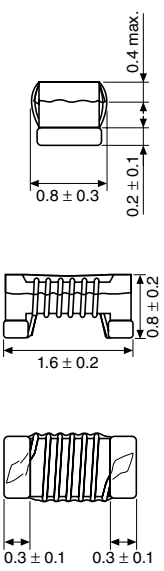


SPECIFICATIONS

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)	300 (MHz) Typical					800 (MHz) Typical
	*LQW1608A2N2D00	2.2	$\pm 0.5\text{nH}$		16			80	110	0.049	700	-25°C ~ +85°C
	*LQW1608A3N6D(C)00	3.6	$\pm 0.5\text{nH}$		25			75	95	0.059	850	
	*LQW1608A3N9D(C)00	3.9	$\pm 0.2\text{nH}$									
	*LQW1608A4N3D(C)00	4.3	$\pm 0.5\text{nH}$					80	100	0.11	650	
	*LQW1608A4N7D00	4.7	$\pm 0.5\text{nH}$									
	*LQW1608A5N6D(C)00	5.6	$\pm 0.5\text{nH}$					55	90	0.16	5500	
	*LQW1608A6N2D(C)00	6.2	$\pm 0.2\text{nH}$		35	250						
	*LQW1608A6N8D(C)00	6.8	$\pm 0.5\text{nH}$					55	90	0.16	4600	
	*LQW1608A7N5D00	7.5	$\pm 0.5\text{nH}$									
	*LQW1608A8N2D00	8.2	$\pm 0.5\text{nH}$					55	90	0.16	3700	
	*LQW1608A8N7D00	8.7	$\pm 0.5\text{nH}$									
	*LQW1608A9N1D00	9.1	$\pm 0.5\text{nH}$					55	90	0.16	3200	
	*LQW1608A9N5D00	9.5	$\pm 0.5\text{nH}$									
	*LQW1608A10NJ(G)00	10	$\pm 5\%$					50	85	0.21	500	
	*LQW1608A11NJ(G)00	11	$\pm 2\%$									
	*LQW1608A12NJ(G)00	12	$\pm 2\%$					50	85	0.23	420	
	*LQW1608A13NJ(G)00	13	$\pm 2\%$									
	*LQW1608A15NJ(G)00	15	$\pm 2\%$					50	85	0.23	400	
	*LQW1608A16NJ(G)00	16	$\pm 2\%$									
	*LQW1608A18NJ(G)00	18	$\pm 2\%$					50	85	0.23	400	
*LQW1608A20NJ(G)00	20	$\pm 2\%$					50					85
*LQW1608A22NJ(G)00	22	$\pm 2\%$						50	85	0.23	400	
*LQW1608A24NJ(G)00	24	$\pm 2\%$					50					85
*LQW1608A27NJ(G)00	27	$\pm 2\%$						50	85	0.23	400	
*LQW1608A30NJ(G)00	30	$\pm 2\%$					50					85
*LQW1608A33NJ(G)00	33	$\pm 2\%$						50	85	0.23	400	
*LQW1608A36NJ(G)00	36	$\pm 2\%$					50					85

* Available as standard through authorized Murata Electronics Distributors.

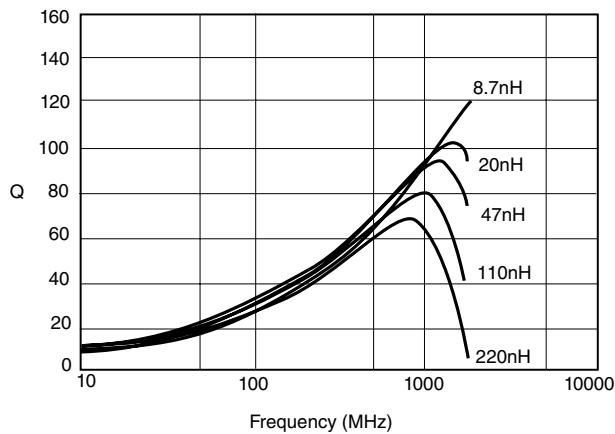
SPECIFICATIONS

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)	300 (MHz) Typical					800 (MHz) Typical	1.5 (GHz) Typical																																						
 <p>0.4 max. 0.2 ± 0.1 0.8 ± 0.3 0.8 ± 0.2 1.6 ± 0.2 0.3 ± 0.1 0.3 ± 0.1</p>	*LQW1608A39NJ(G)00	39	±5% (±2%)	100	40	250	50	85	75	90	0.26	2800	400	-25°C ~ +85°C																																					
	*LQW1608A43NJ(G)00	43			38	200				50	85	75	0.29		2700	380																																			
	*LQW1608A47NJ(G)00	47											32		150	45	70	65	0.33	2500	370																														
	*LQW1608A51NJ(G)00	51																	25	100	60	—	—	0.35	2400	360																									
	*LQW1608A56NJ(G)00	56																						34	80	60	55	—	0.51	2300	280																				
	*LQW1608A62NJ(G)00	62																											32	75	50	—	—	0.38	2200	340															
	*LQW1608A68NJ(G)00	68																																32	75	50	—	—	0.56	2100	270										
	*LQW1608A72NJ(G)00	72																																					32	75	50	—	—	2050	250						
	*LQW1608A75NJ(G)00	75																																										32	75	50	—	—	0.60	2000	250
	*LQW1608A82NJ(G)00	82																																															32	75	50
	*LQW1608A91NJ(G)00	91			32	75	50	—	—	0.68	1800	220																																							
	*LQW1608AR10J(G)00	100								32	75	50	—		—	1.2	1350	200																																	
	*LQW1608AR11J(G)00	110			32	75	50	—	—							1.3	1600	180																																	
	*LQW1608AR12J(G)00	120								32	75	50	—		—	1.4	1450	170																																	
	*LQW1608AR13J(G)00	130			32	75	50	—	—							1.5	1400	160																																	
	*LQW1608AR15J(G)00	150								32	75	50	—		—	2.1	1350	150																																	
	*LQW1608AR16J(G)00	160			32	75	50	—	—							2.2	1300	140																																	
	*LQW1608AR18J(G)00	180								32	75	50	—		—	2.4	1250	120																																	
	*LQW1608AR20J(G)00	200			32	75	50	—	—							2.5	1200	120																																	
	*LQW1608AR22J(G)00	220								32	75	50	—		—	—	—	—																																	

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TYPICAL ELECTRICAL CHARACTERISTICS

Q-FREQUENCY CHARACTERISTICS



INDUCTANCE-FREQUENCY CHARACTERISTICS

