

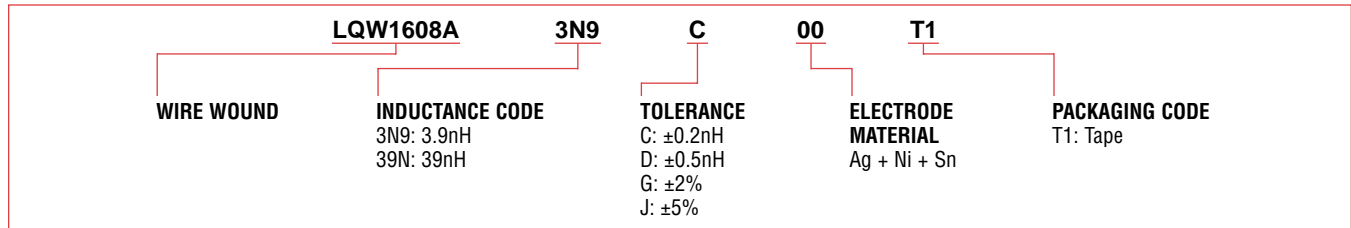


The LQW1608 Series are miniaturized surface mount inductors with an aluminum core bobbin. Murata's unique winding technology enables tight tolerances and high Q values in the high frequency range. It also minimizes stray capacitance, hence increasing the self-resonant frequency. It is suitable for high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

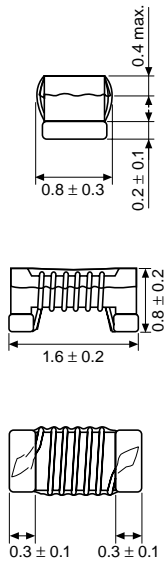
### FEATURES

- 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

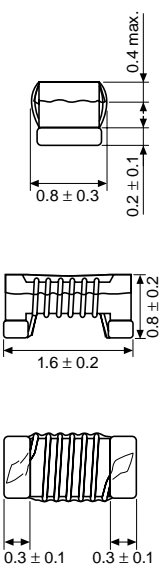


### SPECIFICATIONS

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
 <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>	*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	$\pm 0.5\text{nH}$					50			600	
	*LQW1608A6N2D(C)00	6.2	$\pm 0.2\text{nH}$									
	*LQW1608A6N8D(C)00	6.8	$\pm 0.5\text{nH}$					40			500	
	*LQW1608A7N5D00	7.5	$\pm 0.5\text{nH}$									
	*LQW1608A8N2D00	8.2	$\pm 0.5\text{nH}$					55	90	0.16	5500	
	*LQW1608A8N7D00	8.7	$\pm 0.5\text{nH}$								50	
	*LQW1608A9N1D00	9.1	$\pm 5\%$					50	85	0.13		
	*LQW1608A9N5D00	9.5	$\pm 2\%$								50	
	*LQW1608A10NJ(G)00	10			100	250		50	85	0.13		
	*LQW1608A11NJ(G)00	11									50	
	*LQW1608A12NJ(G)00	12						50	85	0.13		
	*LQW1608A13NJ(G)00	13									50	
	*LQW1608A15NJ(G)00	15						50	85	0.13		
	*LQW1608A16NJ(G)00	16									50	
	*LQW1608A18NJ(G)00	18						50	85	0.13		
*LQW1608A20NJ(G)00	20						50				85	0.13
*LQW1608A22NJ(G)00	22							50	85	0.13		
*LQW1608A24NJ(G)00	24						50				85	0.13
*LQW1608A27NJ(G)00	27							50	85	0.13		
*LQW1608A30NJ(G)00	30						50				85	0.13
*LQW1608A33NJ(G)00	33							50	85	0.13		
*LQW1608A36NJ(G)00	36						50				85	0.23
									0.26	400		

\* Available as standard through authorized Murata Electronics Distributors.

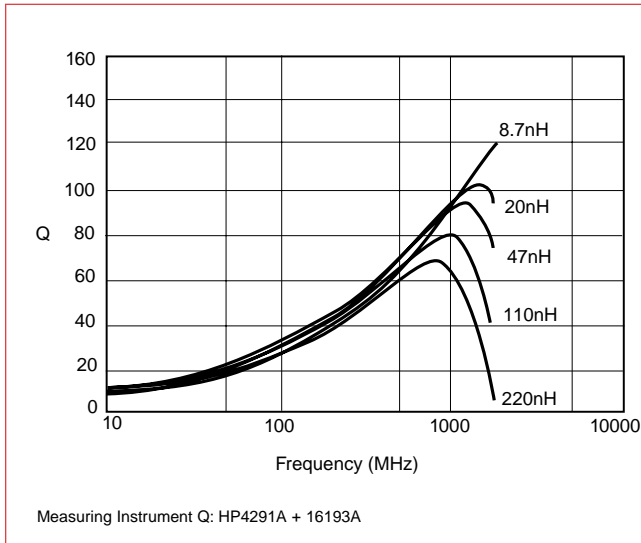
### SPECIFICATIONS

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</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				60	0.29	2700	380	
	*LQW1608A47NJ(G)00	47									34	150	55	
	*LQW1608A51NJ(G)00	51			32	100				50				
	*LQW1608A56NJ(G)00	56									25	100	60	
	*LQW1608A62NJ(G)00	62			32	100				55				
	*LQW1608A68NJ(G)00	68									32	100	50	
	*LQW1608A72NJ(G)00	72			32	100				50				
	*LQW1608A75NJ(G)00	75									32	100	50	
	*LQW1608A82NJ(G)00	82			32	100				50				
	*LQW1608A91NJ(G)00	91									32	100	50	
	*LQW1608AR10J(G)00	100			32	100				50				
	*LQW1608AR11J(G)00	110									32	100	50	
	*LQW1608AR12J(G)00	120			32	100				50				
	*LQW1608AR13J(G)00	130									32	100	50	
	*LQW1608AR15J(G)00	150			32	100				50				
	*LQW1608AR16J(G)00	160									32	100	50	
	*LQW1608AR18J(G)00	180			32	100				50				
	*LQW1608AR20J(G)00	200									32	100	50	
	*LQW1608AR22J(G)00	220			32	100				50				

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### TYPICAL ELECTRICAL CHARACTERISTICS

#### Q-FREQUENCY CHARACTERISTICS



#### INDUCTANCE-FREQUENCY CHARACTERISTICS

