

LQH1C/3C Series

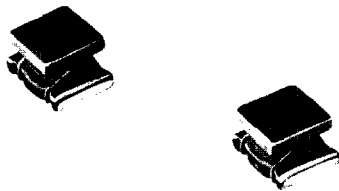
The LQH1C and LQH3C Series are subminiature chip coils with low DC resistance, high current capacity and high impedance characteristics. These features are made possible by the development of Murata Electronics' own automatic winding and multilayer techniques. They are excellent for use as choke coils in DC power supply circuits.

LQH1C

The sub-miniature dimensions (3.2 x 1.6 x 1.8mm) allow parallel mounting on 2.5mm centers. Despite their small size, at 0.12μH these coils have a maximum current rating of 970mA.

LQH3C

The low DC resistance means high current and high inductance.



PART NUMBERING

TYPE LQH : With Coating	SIZE 1: 3.2 x 1.6 (1206) 3: 3.2 x 2.5 (1210)	CHOKE APPLICATION	INDUCTANCE R12 : 0.12μH 1R0 : 1.0μH	TOLERANCE K : ±10% M : ±20%	ELECTRICAL MATERIAL 04 : Nickel Alloy 24 : Metallization	MARKING M00 : Unmarked M01 : Marked
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SPECIFICATIONS

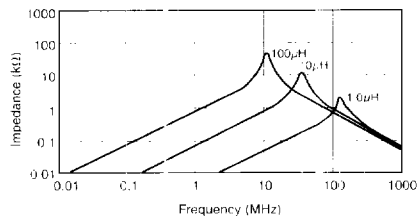
Dimensions: mm	Part Number	Inductance			DC Resistance (Ω)	Self-resonant Frequency		Allowable Current (mA)	Operating Temp. Range				
		Nominal Value (μH)	Tolerance (%)	Measurement Frequency		Typical	Min. Value (MHz)						
LQH1C Series 	★LQH1CR12M04	0.12	±10	1 MHz	0.08 ± 40%	900	250	970	-25°C ~ +85°C				
	★LQH1CR22M04	0.22			0.10 ± 40%	570	250			850			
	★LQH1CR47M04	0.47			0.15 ± 40%	310	180			700			
	★LQH1CR10M04	1.0			0.28 ± 30%	190	100			510			
	★LQH1CR2R2M04	2.2			0.41 ± 30%	110	50			430			
	★LQH1CR47M04	4.7			0.65 ± 30%	67	31			340			
	★LQH1C100K04	10	±10		1.3 ± 30%	42	20	230					
	★LQH1C220K04	22			3.0 ± 30%	26	14	160					
	★LQH1C470K04	47			8.0 ± 30%	18	10	100					
	★LQH1C101K04	100			12.0 ± 30%	12	7	80					
	LQH3C Series 	★LQH3C1R0M04			1.0	±10	1 MHz	0.09 ± 30%		150	96	800	-25°C ~ +85°C
		★LQH3C2R2M04			2.2			0.13 ± 30%		100	64		
★LQH3C4R7M04		4.7	0.20 ± 30%	66	43			450					
★LQH3C100K04		10	0.44 ± 30%	40	26			300					
★LQH3C220K04		22	0.71 ± 30%	27	19			250					
★LQH3C470K04		47	1.3 ± 30%	19	15			170					
★LQH3C101K04		100	±10	3.5 ± 30%	13	10		100					
★LQH3C221K04		220		8.4 ± 30%	8.5	6.8		70					
★LQH3C331K04		330		10.0 ± 30%	7.0	5.6		60					
★LQH3C391K04		390		17.0 ± 30%	6.6	5.0							
★LQH3C471K04		470		1 kHz	19.0 ± 30%			6.2	5.7				
★LQH3C561K04		560			22.0 ± 30%	5.7							
★LQH3CR15M24	0.15	±1%	1 MHz	0.028 ± 30%	650	400	1450	-25°C ~ +85°C					
★LQH3CR27M24	0.27			0.034 ± 30%	450	250	1250						
★LQH3CR47M24	0.47			0.042 ± 30%	300	150	1100						
★LQH3C1R0M24	1.0			0.060 ± 30%	200	100	1000						
★LQH3C2R2M24	2.2			0.097 ± 30%	120	64	790						
★LQH3C4R7M24	4.7			0.15 ± 30%	77	43	650						
★LQH3C100K24	10			±10	0.30 ± 30%	50	26		450				

*Available as standard through authorized Murata Electronics Distributors.

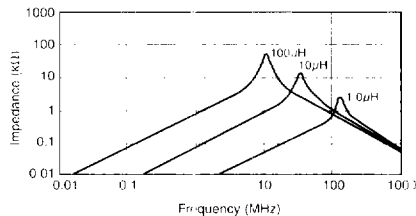
TYPICAL ELECTRICAL CHARACTERISTICS

IMPEDANCE FREQUENCY CHARACTERISTICS

LQH1C Series

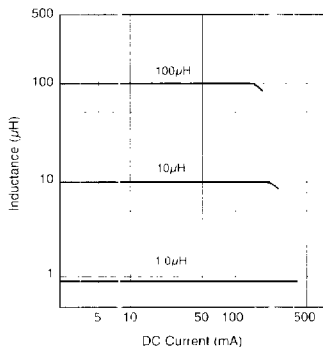


LQH3C Series

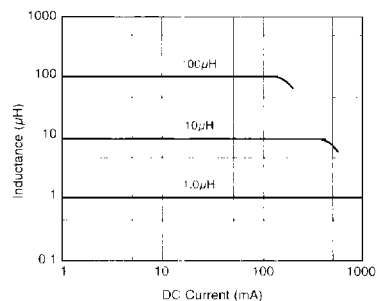


DIRECT CURRENT CHARACTERISTICS

LQH1C Series



LQH3C Series



SURFACE MOUNT INDUCTORS