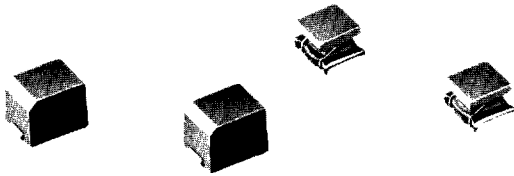


SURFACE MOUNT INDUCTORS

LQH1C/3C/LQM32C Series

The LQH1C, LQG21C, LQH3C and LQM32C 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.

LQM32C

The plastic molded structure has a magnetic shielding effect that minimizes crosstalk and interference with nearby circuitry, making these coils excellent for high density mounting. Their high mechanical strength simplifies the mounting operation. Despite their small size (3.2 x 2.5 x 2.5mm), a large inductance range (470 to 1,000μH) is offered.

PART NUMBERING

LQH		1	C	R12	M	04	M00
LQH : With Coating LQM : Molded	SIZE 1 : 3.2 x 1.6 (1206) 3 : 3.2 x 2.5 (1210) 32 : 3.2 x 2.5 (1210) for LQM	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	

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	±20	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	
	*LQH1C1R0M04	1.0			0.28 ± 30%	190	100			510	
	*LQH1C2R2M04	2.2			0.41 ± 30%	110	50			430	
	*LQH1C4R7M04	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	±20	1 MHz	0.09 ± 30%	150	96	800	-25°C ~ +85°C		
	*LQH3C2R2M04	2.2			0.13 ± 30%	100	64			600	
	*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	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					
	*LQH3CT471K04	470	±10		19.0 ± 30%		6.2	5.0		60	
	*LQH3C561K04	560			1 kHz	22.0 ± 30%	5.7				
	*LQH3CR15M24	0.15	±20%		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	0.30 ± 30%		50		26	450				

*Available as standard through authorized Murata Electronics Distributors.

LQH1C/3C LQM32C Series

SPECIFICATIONS

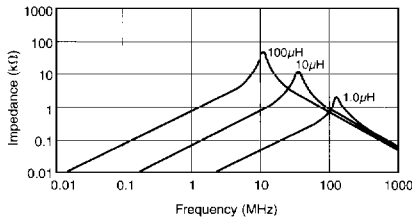
Dimensions: mm	Part Number	Inductance			DC Resistance (Ω)	Self-resonant Frequency		Allowable Current (mA)	Operating Temp. Range
		Nominal Value (μ H)	Tolerance (%)	Measurement Frequency		Typical	Min. Value (MHz)		
	★LQM32C471M00	470	±20%	0.1MHz	13 ± 30%	6.0	4.5	80	-25°C ~ +85°C
	★LQM32C681M00	680			16 ± 30%	5.0	4.0	65	
	★LQM32C102M00	1000			20 ± 30%	4.0	3.0	50	

★Available as standard through authorized Murata Electronics Distributors.

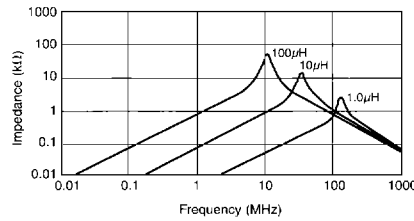
TYPICAL ELECTRICAL CHARACTERISTICS

IMPEDANCE FREQUENCY CHARACTERISTICS

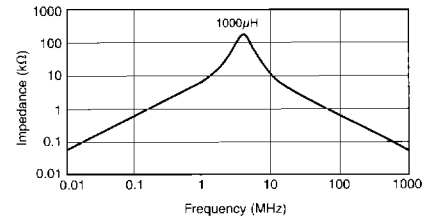
LQH1C Series



LQH3C Series

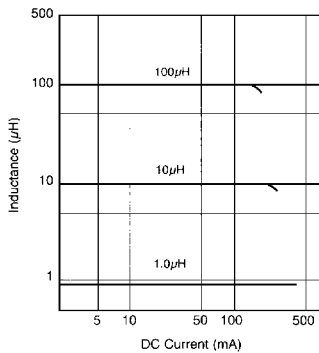


LQM32C Series

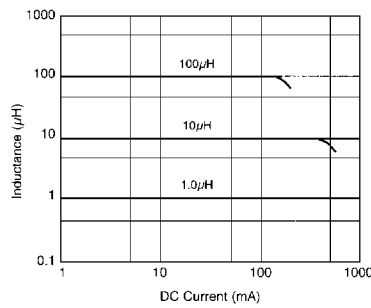


DIRECT CURRENT CHARACTERISTICS

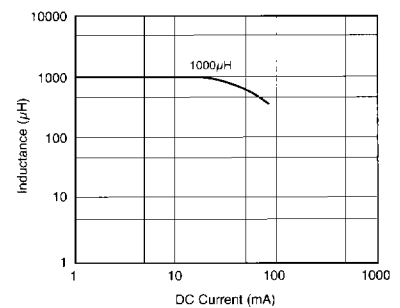
LQH1C Series



LQH3C Series



LQM32C Series



SURFACE MOUNT INDUCTORS