

LQH1N/3N/4N



The chip coil LQH/LQN Series comprises subminiature chip inductors wound on a special ferrite core made possible by an automatic winding technique developed by Murata Electronics. These inductors have a high Q at high frequencies and low DC resistance, making them suited for enhancing the performance of electronic circuits in video, communications and audio equipment.

LQH1N

The sub-miniature dimensions (3.2 x 1.6 x 1.8mm) allow parallel mounting on 2.5mm centers. This series is suitable for portable audio-visual equipment.

LQH3N

High Q value makes the series suitable for circuits up to 100MHz in frequency. This series is excellent for video equipment.

LQH(N)4N

This series is available with high inductance values and high current capacity. At 10μH, up to 450mA designs are possible, resulting in excellent performance when the series is used as a choke coil.

PART NUMBERING

LQH	3	C	101	K	04	M00
LQH : Epoxy coating on winding	SIZE 1 : 3.2 x 1.6mm (1206) 3 : 3.2 x 2.5mm (1210) 4 : 4.5 x 3.2mm (1812)	APPLICATION C : Ferrite core for choke coil	INDUCTANCE CODE R22 : 0.22μH R2 : 2.2μH 220 : 22μH 221 : 220μH 102 : 1000μH	TOLERANCE J : ± 5% K : ±10% M : ±20%	ELECTRODE MATERIAL 04 : Nickel Alloy Metallization	MARKING M01 : Marked M00 : Unmarked (Marking not available on LQH4N)

SPECIFICATIONS

Dimensions: mm	Part Number	Inductance			Q		DC Resistance (Ω)	Self-resonant Frequency (MHz min.)	Allowable Current (mA)	Operating Temp. Range
		Nominal Value (μH)	Tolerance (%)	Measurement Frequency	Nominal Value (min.)	Measurement Frequency				
	*LQH1NR15M(K)04	0.15	± 20 (± 10)	1MHz	20	25MHz	0.39±40%	250	250	-25°C ~ +85°C
	*LQH1NR22M(K)04	0.22					0.43±40%	250	240	
	*LQH1NR33M(K)04	0.33					0.45±40%	250	230	
	*LQH1NR47M(K)04	0.47					0.83±40%	200	215	
	*LQH1NR56M(K)04	0.56					0.61±40%	180	200	
	*LQH1NR68M(K)04	0.68					0.67±40%	160	190	
	*LQH1NR82M(K)04	0.82					0.73±40%	120	185	
	*LQH1NR0M(K)04	1.0	± 20 (± 10) (± 5)		35	10MHz	0.49±30%	100	175	
	*LQH1NR2M(K)04	1.2					0.9±30%	90	165	
	*LQH1NR5M(K.J)04	1.5					1.0±30%	75	155	
	*LQH1NR8M(K.J)04	1.8					1.6±30%	60	150	
	*LQH1NR2R2M(K.J)04	2.2					0.7±30%	50	140	
	*LQH1NR7M(K.J)04	2.7					0.55±30%	43	135	
	*LQH1NR3R3M(K.J)04	3.3					1.4±30%	38	130	
	*LQH1NR3R9M(K.J)04	3.9		1.5±30%	35	125				
	*LQH1NR4R7M(K.J)04	4.7		1.7±30%	31	120				
	*LQH1NR5R6M(K.J)04	5.6		1.8±30%	28	115				
	*LQH1NR6R8M(K.J)04	6.8		2.0±30%	25	110				
	*LQH1NR8R2M(K.J)04	8.2		2.2±30%	23	105				
	*LQH1N100K(J)04	10		± 10 (± 5)	40	2.5MHz	2.5±30%	20	100	
	*LQH1N120K(J)04	12					2.7±30%	18	95	
	*LQH1N150K(J)04	15	3.0±30%				16	90		
	*LQH1N180K(J)04	18	3.4±30%				15	85		
	*LQH1N220K(J)04	22	3.1±30%				14	85		
	*LQH1N270K(J)04	27	3.4±30%				13	85		
	*LQH1N330K(J)04	33	3.8±30%				12	80		
	*LQH1N390K(J)04	39	7.2±30%		11	55				
	*LQH1N470K(J)04	47	8.0±30%		10	55				
	*LQH1N560K(J)04	56	8.9±30%		9.0	50				
	*LQH1N680K(J)04	68	9.9±30%		8.5	50				
*LQH1N820K(J)04	82	11±30%	7.5		45					
*LQH1N101K(J)04	100	12±30%	7.0		45					

*Available as standard through authorized Murata Electronics Distributors.

SURFACE MOUNT INDUCTORS