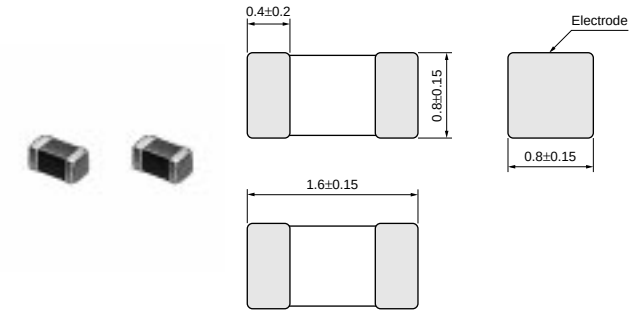
Chip Coils

for General Use Monolithic Type LQM18N/LQM21N Series

LQM18N Series

The LQM18N series of magnetically shielded chip coils was developed by using original multilayer process technology and magnetic materials.
Compact size is suitable for high density mounting.
Shielded construction is not affected by interference from peripheral components.



(in mm)

■ Features

1. Magnetically shielded structure provides excellent characteristics in cross talk and magnetic coupling.
2. Compact size (1.6x0.8mm) and light weight
3. The external electrodes with nickel barrier structure provide excellent solder heat resistance. Both flow and reflow soldering can be applicable.

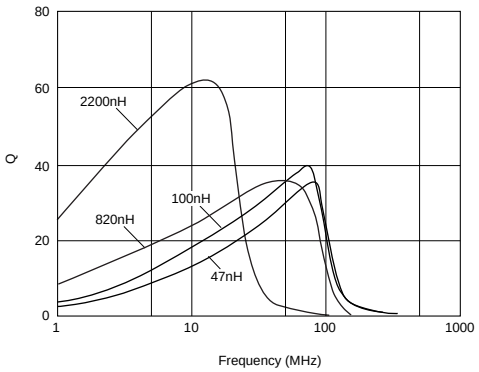
■ Applications

1. Resonance circuit, traps, filter circuits
2. RF choke in telecommunication equipment, cordless phones, radio equipment

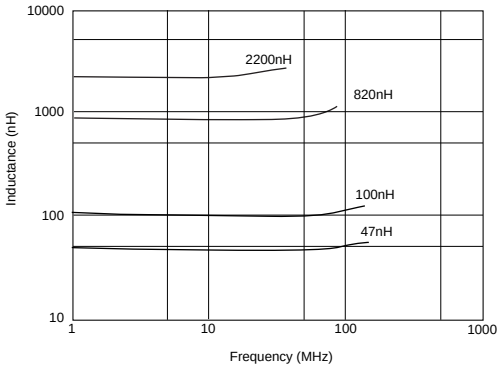
Part Number	Inductance (nH)	Test Frequency (MHz)	Rated Current (mA)	DC Resistance (ohm)	Q (min.)	Test Frequency (MHz)	Self Resonance Frequency (min.) (MHz)	EIA
LQM18NN47NM00	47 ±20%	50	50	0.30 max.	10	50	260	0603
LQM18NN68NM00	68 ±20%	50	50	0.30 max.	10	50	250	0603
LQM18NN82NM00	82 ±20%	50	50	0.30 max.	10	50	245	0603
LQM18NNR10K00	100 ±10%	25	50	0.50 max.	15	25	240	0603
LQM18NNR12K00	120 ±10%	25	50	0.50 max.	15	25	205	0603
LQM18NNR15K00	150 ±10%	25	50	0.60 max.	15	25	180	0603
LQM18NNR18K00	180 ±10%	25	50	0.60 max.	15	25	165	0603
LQM18NNR22K00	220 ±10%	25	50	0.80 max.	15	25	150	0603
LQM18NNR27K00	270 ±10%	25	50	0.80 max.	15	25	136	0603
LQM18NNR33K00	330 ±10%	25	35	0.85 max.	15	25	125	0603
LQM18NNR39K00	390 ±10%	25	35	1.00 max.	15	25	110	0603
LQM18NNR47K00	470 ±10%	25	35	1.35 max.	15	25	105	0603
LQM18NNR56K00	560 ±10%	25	35	1.55 max.	15	25	95	0603
LQM18NNR68K00	680 ±10%	25	35	1.70 max.	15	25	90	0603
LQM18NNR82K00	820 ±10%	25	35	2.10 max.	15	25	85	0603
LQM18NN1R0K00	1000 ±10%	10	25	0.60 max.	35	10	75	0603
LQM18NN1R2K00	1200 ±10%	10	25	0.80 max.	35	10	65	0603
LQM18NN1R5K00	1500 ±10%	10	25	0.80 max.	35	10	60	0603
LQM18NN1R8K00	1800 ±10%	10	25	0.95 max.	35	10	55	0603
LQM18NN2R2K00	2200 ±10%	10	15	1.15 max.	35	10	50	0603

Operating Temp. Range : -40°C to +85°C

■ Q-Frequency Characteristics



■ Inductance-Frequency Characteristics



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