

Chip Coils



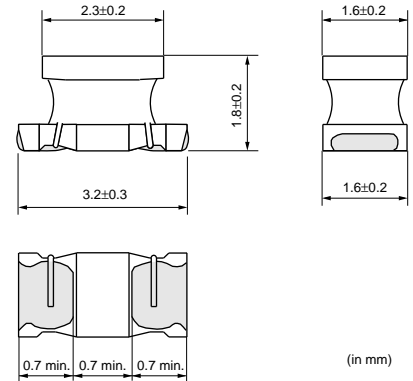
for General Use Winding Type LQH31M/LQH32M/LQH43M (N) Series

LQH31M Series

LQH31M series consists of winding type chip coils using Murata's original ferrite core and auto winding technology.

■ Features

1. Wide inductance range from 0.15 to 100 micro H
2. High Q value at high frequencies and low DC resistance
3. Small size (3.2x1.6x1.8mm) and tight pitch mounting
4. Low DC resistance and large current
5. Both flow and reflow soldering heat resistance



Part Number	Inductance (μH)	Test Frequency (MHz)	Rated Current (mA)	DC Resistance (ohm)	Q (min.)	Test Frequency (MHz)	Self Resonance Frequency (min.) (MHz)	EIA
LQH31MNR15K03	0.15 ±10%	1	250	0.39 ±40%	20	25	250	1206
LQH31MNR22K03	0.22 ±10%	1	240	0.43 ±40%	20	25	250	1206
LQH31MNR33K03	0.33 ±10%	1	230	0.45 ±40%	30	25	250	1206
LQH31MNR47K03	0.47 ±10%	1	215	0.83 ±40%	30	25	200	1206
LQH31MNR56K03	0.56 ±10%	1	200	0.61 ±40%	30	25	180	1206
LQH31MNR68K03	0.68 ±10%	1	190	0.67 ±40%	30	25	160	1206
LQH31MNR82K03	0.82 ±10%	1	185	0.73 ±40%	30	25	120	1206
LQH31MN1R0K03	1.0 ±10%	1	175	0.49 ±30%	35	10	100	1206
LQH31MN1R2K03	1.2 ±10%	1	165	0.9 ±30%	35	10	90	1206
LQH31MN1R5J03	1.5 ±5%	1	155	1.0 ±30%	35	10	75	1206
LQH31MN1R5K03	1.5 ±10%	1	155	1.0 ±30%	35	10	75	1206
LQH31MN1R8J03	1.8 ±5%	1	150	1.6 ±30%	35	10	60	1206
LQH31MN1R8K03	1.8 ±10%	1	150	1.6 ±30%	35	10	60	1206
LQH31MN2R2J03	2.2 ±5%	1	140	0.7 ±30%	35	10	50	1206
LQH31MN2R2K03	2.2 ±10%	1	140	0.7 ±30%	35	10	50	1206
LQH31MN2R7J03	2.7 ±5%	1	135	0.55 ±30%	35	10	43	1206
LQH31MN2R7K03	2.7 ±10%	1	135	0.55 ±30%	35	10	43	1206
LQH31MN3R3J03	3.3 ±5%	1	130	1.4 ±30%	35	8	38	1206
LQH31MN3R3K03	3.3 ±10%	1	130	1.4 ±30%	35	8	38	1206
LQH31MN3R9J03	3.9 ±5%	1	125	1.5 ±30%	35	8	35	1206
LQH31MN3R9K03	3.9 ±10%	1	125	1.5 ±30%	35	8	35	1206
LQH31MN4R7J03	4.7 ±5%	1	120	1.7 ±30%	35	8	31	1206
LQH31MN4R7K03	4.7 ±10%	1	120	1.7 ±30%	35	8	31	1206
LQH31MN5R6J03	5.6 ±5%	1	115	1.8 ±30%	35	8	28	1206
LQH31MN5R6K03	5.6 ±10%	1	115	1.8 ±30%	35	8	28	1206
LQH31MN6R8J03	6.8 ±5%	1	110	2.0 ±30%	35	8	25	1206
LQH31MN6R8K03	6.8 ±10%	1	110	2.0 ±30%	35	8	25	1206
LQH31MN8R2J03	8.2 ±5%	1	105	2.2 ±30%	35	8	23	1206
LQH31MN8R2K03	8.2 ±10%	1	105	2.2 ±30%	35	8	23	1206
LQH31MN100J03	10 ±5%	1	100	2.5 ±30%	35	5	20	1206
LQH31MN100K03	10 ±10%	1	100	2.5 ±30%	35	5	20	1206
LQH31MN120J03	12 ±5%	1	95	2.7 ±30%	35	5	18	1206
LQH31MN120K03	12 ±10%	1	95	2.7 ±30%	35	5	18	1206
LQH31MN150J03	15 ±5%	1	90	3.0 ±30%	35	5	16	1206
LQH31MN150K03	15 ±10%	1	90	3 ±30%	35	5	16	1206
LQH31MN180J03	18 ±5%	1	85	3.4 ±30%	35	5	15	1206

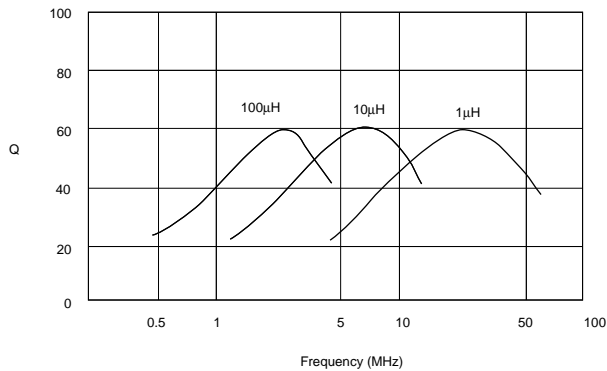
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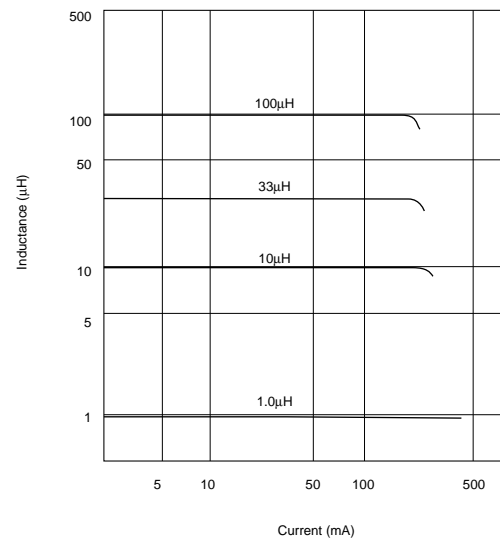
Part Number	Inductance (μH)	Test Frequency (MHz)	Rated Current (mA)	DC Resistance (ohm)	Q (min.)	Test Frequency (MHz)	Self Resonance Frequency (min.) (MHz)	EIA
LQH31MN180K03	18 ±10%	1	85	3.4 ±30%	35	5	15	1206
LQH31MN220J03	22 ±5%	1	85	3.1 ±30%	40	2.5	14	1206
LQH31MN220K03	22 ±10%	1	85	3.1 ±30%	40	2.5	14	1206
LQH31MN270J03	27 ±5%	1	85	3.4 ±30%	40	2.5	13	1206
LQH31MN270K03	27 ±10%	1	85	3.4 ±30%	40	2.5	13	1206
LQH31MN330J03	33 ±5%	1	80	3.8 ±30%	40	2.5	12	1206
LQH31MN330K03	33 ±10%	1	80	3.8 ±30%	40	2.5	12	1206
LQH31MN390J03	39 ±5%	1	55	7.2 ±30%	40	2.5	11	1206
LQH31MN390K03	39 ±10%	1	55	7.2 ±30%	40	2.5	11	1206
LQH31MN470J03	47 ±5%	1	55	8 ±30%	40	2.5	10	1206
LQH31MN470K03	47 ±10%	1	55	8.0 ±30%	40	2.5	10	1206
LQH31MN560J03	56 ±5%	1	50	8.9 ±30%	40	2.5	9	1206
LQH31MN560K03	56 ±10%	1	50	8.9 ±30%	40	2.5	9	1206
LQH31MN680J03	68 ±5%	1	50	9.9 ±30%	40	2.5	8.5	1206
LQH31MN680K03	68 ±10%	1	50	9.9 ±30%	40	2.5	8.5	1206
LQH31MN820J03	82 ±5%	1	45	11 ±30%	40	2.5	7.5	1206
LQH31MN820K03	82 ±10%	1	45	11 ±30%	40	2.5	7.5	1206
LQH31MN101J03	100 ±5%	1	45	12 ±30%	40	2.5	7	1206
LQH31MN101K03	100 ±10%	1	45	12 ±30%	40	2.5	7	1206

Operating Temp. Range : -25°C to +85°C

■ Q-Frequency Characteristics



■ Inductance-Current Characteristics



■ Coupling Coefficient

