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Chip Coils for General Use Wire Wound Type

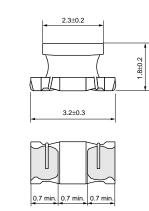
LQH31M Series (1206 Size)

LQH31M series consists of wire wound type chip coils using Murata's original ferrite core and automatic wire wound 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







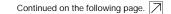
muRata



■ Rated Value (□: packaging code)

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Part Number	Inductance	Test Frequency	Rated Current	DC Resistance	Q (min.)	Test Frequency	Self Resonance Frequency (min.)
LQH31MNR15K03	0.15µH±10%	1MHz	250mA	0.39ohm±40%	20	25MHz	250MHz
LQH31MNR22K03	0.22µH±10%	1MHz	240mA	0.43ohm±40%	20	25MHz	250MHz
LQH31MNR33K03	0.33µH±10%	1MHz	230mA	0.45ohm±40%	30	25MHz	250MHz
LQH31MNR47K03	0.47µH±10%	1MHz	215mA	0.830hm±40%	30	25MHz	200MHz
LQH31MNR56K03	0.56µH±10%	1MHz	200mA	0.61ohm±40%	30	25MHz	180MHz
LQH31MNR68K03	0.68µH±10%	1MHz	190mA	0.67ohm±40%	30	25MHz	160MHz
LQH31MNR82K03	0.82µH±10%	1MHz	185mA	0.73ohm±40%	30	25MHz	120MHz
LQH31MN1R0K03	1.0µH±10%	1MHz	175mA	0.49ohm±30%	35	10MHz	100MHz
LQH31MN1R2J03	1.2µH±5%	1MHz	165mA	0.37ohm±30%	35	10MHz	90MHz
LQH31MN1R2K03	1.2µH±10%	1MHz	165mA	0.9ohm±30%	35	10MHz	90MHz
LQH31MN1R5J03	1.5µH±5%	1MHz	155mA	1.0ohm±30%	35	10MHz	75MHz
LQH31MN1R5K03	1.5μH±10%	1MHz	155mA	1.0ohm±30%	35	10MHz	75MHz
LQH31MN1R8J03	1.8µH±5%	1MHz	150mA	1.6ohm±30%	35	10MHz	60MHz
LQH31MN1R8K03	1.8µH±10%	1MHz	150mA	1.6ohm±30%	35	10MHz	60MHz
LQH31MN2R2J03	2.2µH±5%	1MHz	140mA	0.7ohm±30%	35	10MHz	50MHz
LQH31MN2R2K03	2.2µH±10%	1MHz	140mA	0.7ohm±30%	35	10MHz	50MHz
LQH31MN2R7J03	2.7µH±5%	1MHz	135mA	0.55ohm±30%	35	10MHz	43MHz
LQH31MN2R7K03	2.7µH±10%	1MHz	135mA	0.55ohm±30%	35	10MHz	43MHz
LQH31MN3R3J03	3.3µH±5%	1MHz	130mA	1.4ohm±30%	35	8MHz	38MHz
LQH31MN3R3K03	3.3µH±10%	1MHz	130mA	1.4ohm±30%	35	8MHz	38MHz
LQH31MN3R9J03	3.9µH±5%	1MHz	125mA	1.5ohm±30%	35	8MHz	35MHz
LQH31MN3R9K03	3.9μH±10%	1MHz	125mA	1.50hm±30%	35	8MHz	35MHz
LQH31MN4R7J03	4.7µH±5%	1MHz	120mA	1.7ohm±30%	35	8MHz	31MHz
LQH31MN4R7K03	4.7μH±10%	1MHz	120mA	1.7ohm±30%	35	8MHz	31MHz
LQH31MN5R6J03	5.6µH±5%	1MHz	115mA	1.80hm±30%	35	8MHz	28MHz
LQH31MN5R6K03	5.6µH±10%	1MHz	115mA	1.80hm±30%	35	8MHz	28MHz
LQH31MN6R8J03	6.8µH±5%	1MHz	110mA	2.0ohm±30%	35	8MHz	25MHz
LQH31MN6R8K03	6.8µH±10%	1MHz	110mA	2.0ohm±30%	35	8MHz	25MHz
LQH31MN8R2J03	8.2µH±5%	1MHz	105mA	2.20hm±30%	35	8MHz	23MHz
LQH31MN8R2K03	8.2µH±10%	1MHz	105mA	2.20hm±30%	35	8MHz	23MHz
LQH31MN100J03	10µH±5%	1MHz	100mA	2.50hm±30%	35	5MHz	20MHz

Operating Temperature Range: -40°C to +85°C



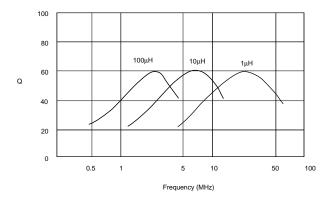


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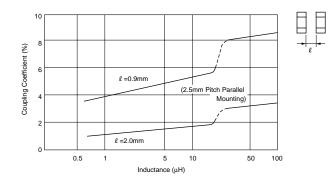
Part Number	Inductance	Test Frequency	Rated Current	DC Resistance	Q (min.)	Test Frequency	Self Resonance Frequency (min.
LQH31MN100K03	10µH±10%	1MHz	100mA	2.5ohm±30%	35	5MHz	20MHz
LQH31MN120J03	12µH±5%	1MHz	95mA	2.7ohm±30%	35	5MHz	18MHz
LQH31MN120K03	12µH±10%	1MHz	95mA	2.7ohm±30%	35	5MHz	18MHz
LQH31MN150J03	15µH±5%	1MHz	90mA	3.0ohm±30%	35	5MHz	16MHz
LQH31MN150K03	15µH±10%	1MHz	90mA	3.0ohm±30%	35	5MHz	16MHz
LQH31MN180J03	18µH±5%	1MHz	85mA	3.4ohm±30%	35	5MHz	15MHz
LQH31MN180K03	18µH±10%	1MHz	85mA	3.4ohm±30%	35	5MHz	15MHz
LQH31MN220J03	22µH±5%	1MHz	85mA	3.1ohm±30%	40	2.5MHz	14MHz
LQH31MN220K03	22µH±10%	1MHz	85mA	3.1ohm±30%	40	2.5MHz	14MHz
LQH31MN270J03	27µH±5%	1MHz	85mA	3.4ohm±30%	40	2.5MHz	13MHz
LQH31MN270K03	27µH±10%	1MHz	85mA	3.4ohm±30%	40	2.5MHz	13MHz
LQH31MN330J03	33µH±5%	1MHz	80mA	3.8ohm±30%	40	2.5MHz	12MHz
LQH31MN330K03	33µH±10%	1MHz	80mA	3.8ohm±30%	40	2.5MHz	12MHz
LQH31MN390J03	39µH±5%	1MHz	55mA	7.20hm±30%	40	2.5MHz	11MHz
LQH31MN390K03	39µH±10%	1MHz	55mA	7.20hm±30%	40	2.5MHz	11MHz
LQH31MN470J03	47µH±5%	1MHz	55mA	8.0ohm±30%	40	2.5MHz	10MHz
LQH31MN470K03	47µH±10%	1MHz	55mA	8.0ohm±30%	40	2.5MHz	10MHz
LQH31MN560J03	56µH±5%	1MHz	50mA	8.90hm±30%	40	2.5MHz	9MHz
LQH31MN560K03	56µH±10%	1MHz	50mA	8.90hm±30%	40	2.5MHz	9MHz
LQH31MN680J03	68µH±5%	1MHz	50mA	9.90hm±30%	40	2.5MHz	8.5MHz
LQH31MN680K03	68µH±10%	1MHz	50mA	9.90hm±30%	40	2.5MHz	8.5MHz
LQH31MN820J03	82µH±5%	1MHz	45mA	11ohm±30%	40	2.5MHz	7.5MHz
LQH31MN820K03	82μH±10%	1MHz	45mA	11ohm±30%	40	2.5MHz	7.5MHz
LQH31MN101J03	100µH±5%	1MHz	45mA	12ohm±30%	40	2.5MHz	7MHz
LQH31MN101K03	100µH±10%	1MHz	45mA	12ohm±30%	40	2.5MHz	7MHz

Operating Temperature Range: -40°C to +85°C

■ Q - Frequency Characteristics (Typ.)



■ Coupling Coefficient



■ Inductance - Currrent Characteristics (Typ.)

