

# Chip Coils for General Use Wire Wound Type



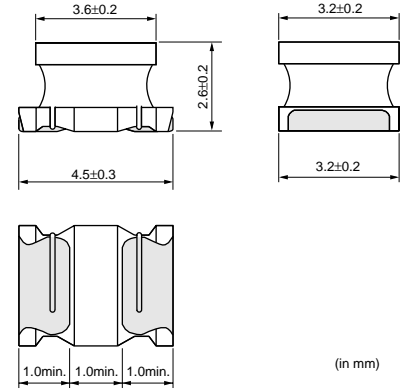
## LQH43M/LQH43N Series (1812 Size)

LQH43M/N series consists of wire wound type chip coils for general use by Murata's original automatic wire wound technology and ferrite core.

### ■ Features

1. High Q value at high frequency and low DC resistance
2. Wide inductance range from 1.0 to 2200 micro H
3. Large current and large inductance

### ■ Dimension




### ■ Rated Value (□: packaging code)

Part Number	Inductance	Test Frequency	Rated Current	Max. of DC resistance	Q (min.)	Test Frequency	Self Resonance Frequency (min.)
LQH43MN1R0M03□	1.0μH±20%	1MHz	500mA	0.20ohm	20	1MHz	120MHz
LQH43MN1R2M03□	1.2μH±20%	1MHz	500mA	0.20ohm	20	1MHz	100MHz
LQH43MN1R5M03□	1.5μH±20%	1MHz	500mA	0.30ohm	20	1MHz	85MHz
LQH43MN1R8M03□	1.8μH±20%	1MHz	500mA	0.30ohm	20	1MHz	75MHz
LQH43MN2R2M03□	2.2μH±20%	1MHz	500mA	0.30ohm	20	1MHz	62MHz
LQH43MN2R7M03□	2.7μH±20%	1MHz	500mA	0.32ohm	20	1MHz	53MHz
LQH43MN3R3M03□	3.3μH±20%	1MHz	500mA	0.35ohm	20	1MHz	47MHz
LQH43MN3R9M03□	3.9μH±20%	1MHz	500mA	0.38ohm	20	1MHz	41MHz
LQH43MN4R7K03□	4.7μH±10%	1MHz	500mA	0.40ohm	30	1MHz	38MHz
LQH43MN5R6K03□	5.6μH±10%	1MHz	500mA	0.47ohm	30	1MHz	33MHz
LQH43MN6R8K03□	6.8μH±10%	1MHz	450mA	0.50ohm	30	1MHz	31MHz
LQH43MN8R2K03□	8.2μH±10%	1MHz	450mA	0.56ohm	30	1MHz	27MHz
LQH43MN100J03□	10μH±5%	1MHz	400mA	0.56ohm	35	1MHz	23MHz
LQH43MN100K03□	10μH±10%	1MHz	400mA	0.56ohm	35	1MHz	23MHz
LQH43MN120J03□	12μH±5%	1MHz	380mA	0.62ohm	35	1MHz	21MHz
LQH43MN120K03□	12μH±10%	1MHz	380mA	0.62ohm	35	1MHz	21MHz
LQH43MN150J03□	15μH±5%	1MHz	360mA	0.73ohm	35	1MHz	19MHz
LQH43MN150K03□	15μH±10%	1MHz	360mA	0.73ohm	35	1MHz	19MHz
LQH43MN180J03□	18μH±5%	1MHz	340mA	0.82ohm	35	1MHz	17MHz
LQH43MN180K03□	18μH±10%	1MHz	340mA	0.82ohm	35	1MHz	17MHz
LQH43MN220J03□	22μH±5%	1MHz	320mA	0.94ohm	35	1MHz	15MHz
LQH43MN220K03□	22μH±10%	1MHz	320mA	0.94ohm	35	1MHz	15MHz
LQH43MN270J03□	27μH±5%	1MHz	300mA	1.1ohm	35	1MHz	14MHz
LQH43MN270K03□	27μH±10%	1MHz	300mA	1.1ohm	35	1MHz	14MHz
LQH43MN330J03□	33μH±5%	1MHz	270mA	1.2ohm	35	1MHz	12MHz
LQH43MN330K03□	33μH±10%	1MHz	270mA	1.2ohm	35	1MHz	12MHz
LQH43MN390J03□	39μH±5%	1MHz	240mA	1.4ohm	35	1MHz	11MHz
LQH43MN390K03□	39μH±10%	1MHz	240mA	1.4ohm	35	1MHz	11MHz
LQH43MN470J03□	47μH±5%	1MHz	220mA	1.5ohm	35	1MHz	10MHz
LQH43MN470K03□	47μH±10%	1MHz	220mA	1.5ohm	35	1MHz	10MHz
LQH43MN560J03□	56μH±5%	1MHz	200mA	1.7ohm	35	1MHz	9.3MHz


Operating Temperature Range: -25°C to +85°C

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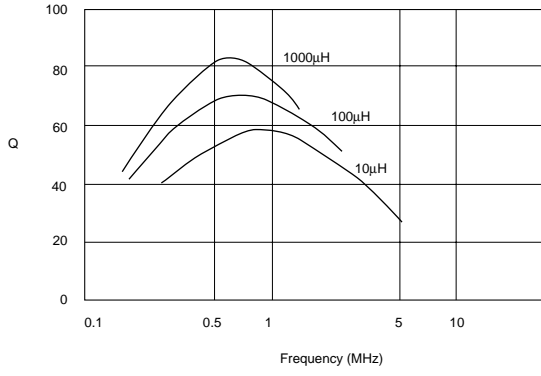
Part Number	Inductance	Test Frequency	Rated Current	Max. of DC resistance	Q (min.)	Test Frequency	Self Resonance Frequency (min.)
LQH43MN560K03□	56μH±10%	1MHz	200mA	1.7ohm	35	1MHz	9.3MHz
LQH43MN680J03□	68μH±5%	1MHz	180mA	1.9ohm	35	1MHz	8.4MHz
LQH43MN680K03□	68μH±10%	1MHz	180mA	1.9ohm	35	1MHz	8.4MHz
LQH43MN820J03□	82μH±5%	1MHz	170mA	2.2ohm	35	1MHz	7.5MHz
LQH43MN820K03□	82μH±10%	1MHz	170mA	2.2ohm	35	1MHz	7.5MHz
LQH43MN101J03□	100μH±5%	1MHz	160mA	2.5ohm	40	796kHz	6.8MHz
LQH43MN101K03□	100μH±10%	1MHz	160mA	2.5ohm	40	796kHz	6.8MHz
LQH43MN121J03□	120μH±5%	1MHz	150mA	3.0ohm	40	796kHz	6.2MHz
LQH43MN121K03□	120μH±10%	1MHz	150mA	3.0ohm	40	796kHz	6.2MHz
LQH43MN151J03□	150μH±5%	1MHz	130mA	3.7ohm	40	796kHz	5.5MHz
LQH43MN151K03□	150μH±10%	1MHz	130mA	3.7ohm	40	796kHz	5.5MHz
LQH43MN181J03□	180μH±5%	1MHz	120mA	4.5ohm	40	796kHz	5MHz
LQH43MN181K03□	180μH±10%	1MHz	120mA	4.5ohm	40	796kHz	5MHz
LQH43MN221J03□	220μH±5%	1MHz	110mA	5.4ohm	40	796kHz	4.5MHz
LQH43MN221K03□	220μH±10%	1MHz	110mA	5.4ohm	40	796kHz	4.5MHz
LQH43MN271J03□	270μH±5%	1MHz	100mA	6.8ohm	40	796kHz	4MHz
LQH43MN271K03□	270μH±10%	1MHz	100mA	6.8ohm	40	796kHz	4MHz
LQH43MN331J03□	330μH±5%	1MHz	95mA	8.2ohm	40	796kHz	3.6MHz
LQH43MN331K03□	330μH±10%	1MHz	95mA	8.2ohm	40	796kHz	3.6MHz
LQH43MN391J03□	390μH±5%	1MHz	90mA	9.7ohm	40	796kHz	3.3MHz
LQH43MN391K03□	390μH±10%	1MHz	90mA	9.7ohm	40	796kHz	3.3MHz
LQH43MN471J03□	470μH±5%	1kHz	80mA	11.8ohm	40	796kHz	3MHz
LQH43MN471K03□	470μH±10%	1kHz	80mA	11.8ohm	40	796kHz	3MHz
LQH43MN561J03□	560μH±5%	1kHz	70mA	14.5ohm	40	796kHz	2.7MHz
LQH43MN561K03□	560μH±10%	1kHz	70mA	14.5ohm	40	796kHz	2.7MHz
LQH43MN681J03□	680μH±5%	1kHz	65mA	17.0ohm	40	796kHz	2.5MHz
LQH43MN681K03□	680μH±10%	1kHz	65mA	17.0ohm	40	796kHz	2.5MHz
LQH43MN821J03□	820μH±5%	1kHz	60mA	20.5ohm	40	796kHz	2.2MHz
LQH43MN821K03□	820μH±10%	1kHz	60mA	20.5ohm	40	796kHz	2.2MHz
LQH43MN102J03□	1000μH±5%	1kHz	50mA	25.0ohm	40	252kHz	2MHz
LQH43MN102K03□	1000μH±10%	1kHz	50mA	25.0ohm	40	252kHz	2MHz
LQH43MN122J03□	1200μH±5%	1kHz	45mA	30.0ohm	40	252kHz	1.8MHz
LQH43MN122K03□	1200μH±10%	1kHz	45mA	30.0ohm	40	252kHz	1.8MHz
LQH43MN152J03□	1500μH±5%	1kHz	40mA	37.0ohm	40	252kHz	1.6MHz
LQH43MN152K03□	1500μH±10%	1kHz	40mA	37.0ohm	40	252kHz	1.6MHz
LQH43NN182J03□	1800μH±5%	1kHz	35mA	45.0ohm	40	252kHz	1.5MHz
LQH43NN182K03□	1800μH±10%	1kHz	35mA	45.0ohm	40	252kHz	1.5MHz
LQH43NN222J03□	2200μH±5%	1kHz	30mA	50.0ohm	40	252kHz	1.3MHz
LQH43NN222K03□	2200μH±10%	1kHz	30mA	50.0ohm	40	252kHz	1.3MHz

Operating Temperature Range: -25°C to +85°C

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■ Q - Frequency Characteristics (Typ.)



■ Inductance - Current Characteristics (Typ.)

