

Chip Coils

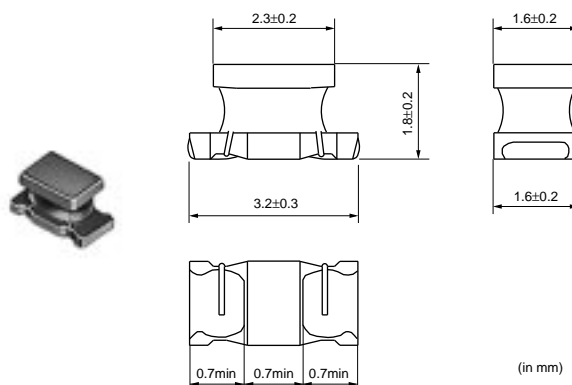


for General Use Winding Type LQH31M/LQH32M/LQH43M (N) Series

LQH31M Series

■ Features

The chip inductor LQH31M series consists of miniature chip inductors wound on a special ferrite core. It have a high Q value at high frequencies and low DC resistance. Wide inductance range from 0.15 micro H to 100 micro H are available.



Part Number	Inductance (μH)	Test Frequency (MHz)	Rated Current (mA)	DC Resistance (ohm)	Q (min.)	Test Frequency (MHz)	Self Resonance Frequency (MHz)	EIA
LQH31MNR15K01	0.15 ±10%	1	250	0.39 ±40%	20	25	250 min.	1206
LQH31MNR22K01	0.22 ±10%	1	240	0.43 ±40%	20	25	250 min.	1206
LQH31MNR33K01	0.33 ±10%	1	230	0.45 ±40%	30	25	250 min.	1206
LQH31MNR47K01	0.47 ±10%	1	215	0.83 ±40%	30	25	200 min.	1206
LQH31MNR56K01	0.56 ±10%	1	200	0.61 ±40%	30	25	180 min.	1206
LQH31MNR68K01	0.68 ±10%	1	190	0.67 ±40%	30	25	160 min.	1206
LQH31MNR82K01	0.82 ±10%	1	185	0.73 ±40%	30	25	120 min.	1206
LQH31MN1R0K01	1.0 ±10%	1	175	0.49 ±30%	35	10	100 min.	1206
LQH31MN1R2K01	1.2 ±10%	1	165	0.9 ±30%	35	10	90 min.	1206
LQH31MN1R5J01	1.5 ±5%	1	155	1.0 ±30%	35	10	75 min.	1206
LQH31MN1R5K01	1.5 ±10%	1	155	1.0 ±30%	35	10	75 min.	1206
LQH31MN1R8J01	1.8 ±5%	1	150	1.6 ±30%	35	10	60 min.	1206
LQH31MN1R8K01	1.8 ±10%	1	150	1.6 ±30%	35	10	60 min.	1206
LQH31MN2R2J01	2.2 ±5%	1	140	0.7 ±30%	35	10	50 min.	1206
LQH31MN2R2K01	2.2 ±10%	1	140	0.7 ±30%	35	10	50 min.	1206
LQH31MN2R7J01	2.7 ±5%	1	135	0.55 ±30%	35	10	43 min.	1206
LQH31MN2R7K01	2.7 ±10%	1	135	0.55 ±30%	35	10	43 min.	1206
LQH31MN3R3J01	3.3 ±5%	1	130	1.4 ±30%	35	8	38 min.	1206
LQH31MN3R3K01	3.3 ±10%	1	130	1.4 ±30%	35	8	38 min.	1206
LQH31MN3R9J01	3.9 ±5%	1	125	1.5 ±30%	35	8	35 min.	1206
LQH31MN3R9K01	3.9 ±10%	1	125	1.5 ±30%	35	8	35 min.	1206
LQH31MN4R7J01	4.7 ±5%	1	120	1.7 ±30	35	8	31 min.	1206
LQH31MN4R7K01	4.7 ±10%	1	120	1.7 ±30%	35	8	31 min.	1206
LQH31MN5R6J01	5.6 ±5%	1	115	1.8 ±30%	35	8	28 min.	1206
LQH31MN5R6K01	5.6 ±10%	1	115	1.8 ±30%	35	8	28 min.	1206
LQH31MN6R8J01	6.8 ±5%	1	110	2.0 ±30%	35	8	25 min.	1206
LQH31MN6R8K01	6.8 ±10%	1	110	2.0 ±30%	35	8	25 min.	1206
LQH31MN8R2J01	8.2 ±5%	1	105	2.2 ±30%	35	8	23 min.	1206
LQH31MN8R2K01	8.2 ±10%	1	105	2.2 ±30%	35	8	23 min.	1206
LQH31MN100J01	10 ±5%	1	100	2.5 ±30%	35	5	20 min.	1206
LQH31MN100K01	10 ±10%	1	100	2.5 ±30%	35	5	20 min.	1206
LQH31MN120J01	12 ±5%	1	95	2.7 ±30%	35	5	18 min.	1206
LQH31MN120K01	12 ±10%	1	95	2.7 ±30%	35	5	18 min.	1206
LQH31MN150J01	15 ±5%	1	90	3.0 ±30%	35	5	16 min.	1206
LQH31MN150K01	15 ±10%	1	90	3 ±30%	35	5	16 min.	1206
LQH31MN180J01	18 ±5%	1	85	3.4 ±30%	35	5	15 min.	1206

Continued on the following page.

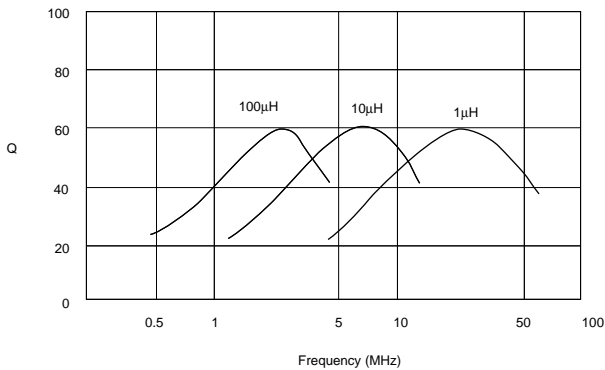
Continued from the preceding page.

Part Number	Inductance (μH)	Test Frequency (MHz)	Rated Current (mA)	DC Resistance (ohm)	Q (min.)	Test Frequency (MHz)	Self Resonance Frequency (MHz)	EIA
LQH31MN180K01	18 ±10%	1	85	3.4 ±30%	35	5	15 min.	1206
LQH31MN220J01	22 ±5%	1	85	3.1 ±30%	40	2.5	14 min.	1206
LQH31MN220K01	22 ±10%	1	85	3.1 ±30%	40	2.5	14 min.	1206
LQH31MN270J01	27 ±5%	1	85	3.4 ±30%	40	2.5	13 min.	1206
LQH31MN270K01	27 ±10%	1	85	3.4 ±30%	40	2.5	13 min.	1206
LQH31MN330J01	33 ±5%	1	80	3.8 ±30%	40	2.5	12 min.	1206
LQH31MN330K01	33 ±10%	1	80	3.8 ±30%	40	2.5	12 min.	1206
LQH31MN390J01	39 ±5%	1	55	7.2 ±30%	40	2.5	11 min.	1206
LQH31MN390K01	39 ±10%	1	55	7.2 ±30%	40	2.5	11 min.	1206
LQH31MN470J01	47 ±5%	1	55	8 ±30%	40	2.5	10 min.	1206
LQH31MN470K01	47 ±10%	1	55	8.0 ±30%	40	2.5	10 min.	1206
LQH31MN560J01	56 ±5%	1	50	8.9 ±30%	40	2.5	9 min.	1206
LQH31MN560K01	56 ±10%	1	50	8.9 ±30%	40	2.5	9 min.	1206
LQH31MN680J01	68 ±5%	1	50	9.9 ±30%	40	2.5	8.5 min.	1206
LQH31MN680K01	68 ±10%	1	50	9.9 ±30%	40	2.5	8.5 min.	1206
LQH31MN820J01	82 ±5%	1	45	11 ±30%	40	2.5	7.5 min.	1206
LQH31MN820K01	82 ±10%	1	45	11 ±30%	40	2.5	7.5 min.	1206
LQH31MN101J01	100 ±5%	1	45	12 ±30%	40	2.5	7 min.	1206
LQH31MN101K01	100 ±10%	1	45	12 ±30%	40	2.5	7 min.	1206

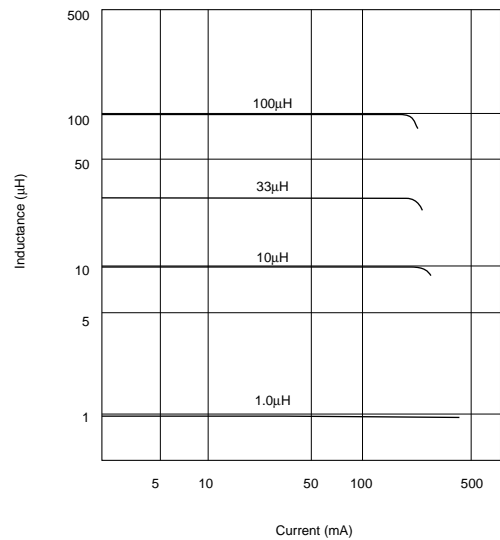
Operating Temp. Range : -25°C to 85°C

7

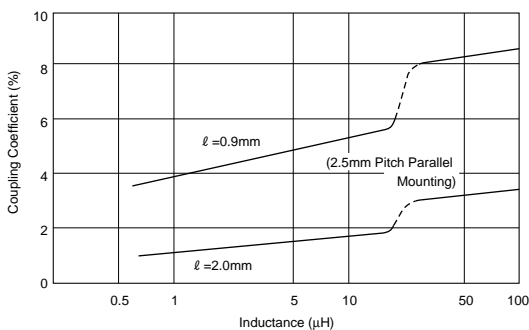
Q-Frequency Characteristics



Inductance-Current Characteristics



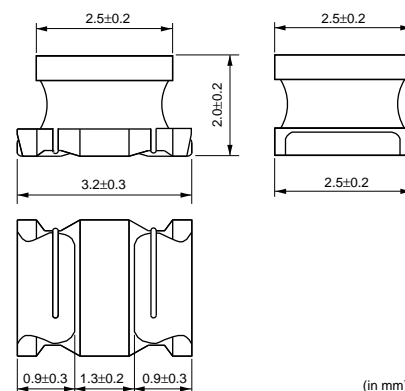
Coupling Coefficient



LQH32M Series

■ Features

The chip inductor LQH32M series consists of miniature chip inductors wound on a special ferrite core. It have a high Q value at high frequencies and low DC resistance. Wide inductance range from 1.0 micro H to 560 micro H are available.



Part Number	Inductance (μH)	Test Frequency	Rated Current (mA)	DC Resistance (ohm)	Q (min.)	Test Frequency	Self Resonance Frequency (MHz)	EIA
LQH32MN1R0M21	1 ±20%	1MHz	445	0.5 max.	20	1MHz	100 min.	1210
LQH32MN1R2M21	1.2 ±20%	1MHz	425	0.6 max.	20	1MHz	100 min.	1210
LQH32MN1R5K21	1.5 ±10%	1MHz	400	0.6 max.	20	1MHz	75 min.	1210
LQH32MN1R8K21	1.8 ±10%	1MHz	390	0.7 max.	20	1MHz	60 min.	1210
LQH32MN2R2K21	2.2 ±10%	1MHz	370	0.8 max.	20	1MHz	50 min.	1210
LQH32MN2R7K21	2.7 ±10%	1MHz	320	0.9 max.	20	1MHz	43 min.	1210
LQH32MN3R3K21	3.3 ±10%	1MHz	300	1.0 max.	20	1MHz	38 min.	1210
LQH32MN3R9K21	3.9 ±10%	1MHz	290	1.1 max.	20	1MHz	35 min.	1210
LQH32MN4R7K21	4.7 ±10%	1MHz	270	1.2 max.	20	1MHz	31 min.	1210
LQH32MN5R6K21	5.6 ±10%	1MHz	250	1.3 max.	20	1MHz	28 min.	1210
LQH32MN6R8K21	6.8 ±10%	1MHz	240	1.5 max.	20	1MHz	25 min.	1210
LQH32MN8R2K21	8.2 ±10%	1MHz	225	1.6 max.	20	1MHz	23 min.	1210
LQH32MN100J21	10 ±5%	1MHz	190	1.8 max.	35	1MHz	20 min.	1210
LQH32MN100K21	10 ±10%	1MHz	190	1.8 max.	35	1MHz	20 min.	1210
LQH32MN120J21	12 ±5%	1MHz	180	2.0 max.	35	1MHz	18 min.	1210
LQH32MN120K21	12 ±10%	1MHz	180	2.0 max.	35	1MHz	18 min.	1210
LQH32MN150J21	15 ±5%	1MHz	170	2.2 max.	35	1MHz	16 min.	1210
LQH32MN150K21	15 ±10%	1MHz	170	2.2 max.	35	1MHz	16 min.	1210
LQH32MN180J21	18 ±5%	1MHz	165	2.5 max.	35	1MHz	15 min.	1210
LQH32MN180K21	18 ±10%	1MHz	165	2.5 max.	35	1MHz	15 min.	1210
LQH32MN220J21	22 ±5%	1MHz	150	2.8 max.	35	1MHz	14 min.	1210
LQH32MN220K21	22 ±10%	1MHz	150	2.8 max.	35	1MHz	14 min.	1210
LQH32MN270J21	27 ±5%	1MHz	125	3.1 max.	35	1MHz	13 min.	1210
LQH32MN270K21	27 ±10%	1MHz	125	3.1 max.	35	1MHz	13 min.	1210
LQH32MN330J21	33 ±5%	1MHz	115	3.5 max.	40	1MHz	12 min.	1210
LQH32MN330K21	33 ±10%	1MHz	115	3.5 max.	40	1MHz	12 min.	1210
LQH32MN390J21	39 ±5%	1MHz	110	3.9 max.	40	1MHz	11 min.	1210
LQH32MN390K21	39 ±10%	1MHz	110	3.9 max.	40	1MHz	11 min.	1210
LQH32MN470J21	47 ±5%	1MHz	100	4.3 max.	40	1MHz	11 min.	1210
LQH32MN470K21	47 ±10%	1MHz	100	4.3 max.	40	1MHz	11 min.	1210
LQH32MN560J21	56 ±5%	1MHz	85	4.9 max.	40	1MHz	10 min.	1210
LQH32MN560K21	56 ±10%	1MHz	85	4.9 max.	40	1MHz	10 min.	1210
LQH32MN680J21	68 ±5%	1MHz	80	5.5 max.	40	1MHz	9 min.	1210
LQH32MN680K21	68 ±10%	1MHz	80	5.5 max.	40	1MHz	9 min.	1210
LQH32MN820J21	82 ±5%	1MHz	70	6.2 max.	40	1MHz	8.5 min.	1210
LQH32MN820K21	82 ±10%	1MHz	70	6.2 max.	40	1MHz	8.5 min.	1210
LQH32MN101J21	100 ±5%	1MHz	80	7 max.	40	796kHz	8 min.	1210
LQH32MN101K21	100 ±10%	1MHz	80	7 max.	40	796kHz	8 min.	1210
LQH32MN121J21	120 ±5%	1MHz	75	8.0 max.	40	796kHz	7.5 min.	1210
LQH32MN121K21	120 ±10%	1MHz	75	8.0 max.	40	796kHz	7.5 min.	1210
LQH32MN151J21	150 ±5%	1MHz	70	9.3 max.	40	796kHz	7 min.	1210
LQH32MN151K21	150 ±10%	1MHz	70	9.3 max.	40	796kHz	7 min.	1210

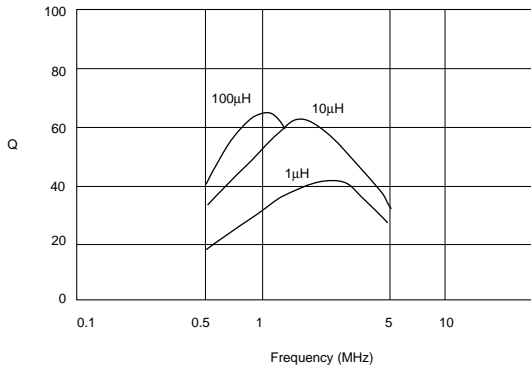
Continued on the following page.

Continued from the preceding page.

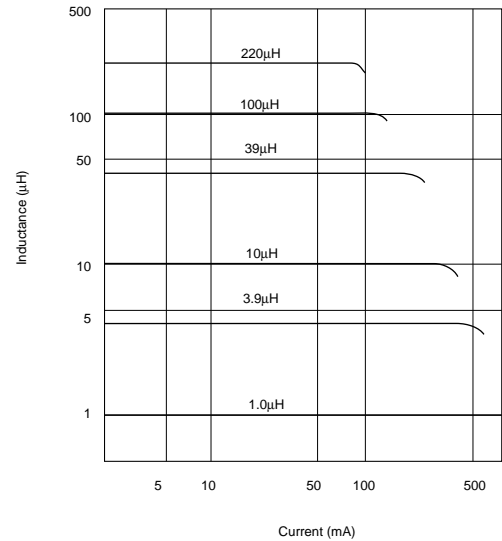
Part Number	Inductance (μH)	Test Frequency	Rated Current (mA)	DC Resistance (ohm)	Q (min.)	Test Frequency	Self Resonance Frequency (MHz)	EIA
LQH32MN181J21	180 ±5%	1MHz	65	10.2 max.	40	796kHz	6 min.	1210
LQH32MN181K21	180 ±10%	1MHz	65	10.2 max.	40	796kHz	6 min.	1210
LQH32MN221J21	220 ±5%	1MHz	65	11.8 max.	40	796kHz	5.5 min.	1210
LQH32MN221K21	220 ±10%	1MHz	65	11.8 max.	40	796kHz	5.5 min.	1210
LQH32MN271J21	270 ±5%	1MHz	65	12.5 max.	40	796kHz	5 min.	1210
LQH32MN271K21	270 ±10%	1MHz	65	12.5 max.	40	796kHz	5 min.	1210
LQH32MN331J21	330 ±5%	1MHz	65	13.0 max.	40	796kHz	5 min.	1210
LQH32MN331K21	330 ±10%	1MHz	65	13.0 max.	40	796kHz	5 min.	1210
LQH32MN391J21	390 ±5%	1MHz	50	22.0 max.	50	796MHz	5 min.	1210
LQH32MN391K21	390 ±10%	1MHz	50	22.0 max.	50	796kHz	5 min.	1210
LQH32MN471J21	470 ±5%	1kHz	45	25.0 max.	50	796kHz	5 min.	1210
LQH32MN471K21	470 ±10%	1kHz	45	25.0 max.	50	796kHz	5 min.	1210
LQH32MN561J21	560 ±5%	1kHz	40	28.0 max.	50	796kHz	5 min.	1210
LQH32MN561K21	560 ±10%	1kHz	40	28.0 max.	50	796kHz	5 min.	1210

Operating Temp. Range : -25°C to 85°C

Q-Frequency Characteristics



Inductance-Current Characteristics

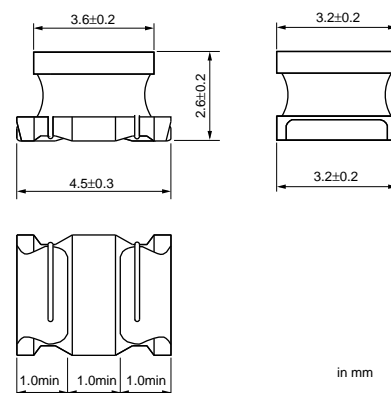


LQH43M/N Series

■ Features

The chip inductor LQH43M/N series consists of miniature chip inductors wound on a special ferrite core. It have a high Q value at high frequencies and low DC resistance.

Wide inductance range from 1.0 micro H to 2200 micro H are available.



in mm

Part Number	Inductance (μH)	Test Frequency	Rated Current (mA)	DC Resistance (ohm)	Q (min.)	Test Frequency	Self Resonance Frequency (MHz)	EIA
LQH43MN1R0M01	1 ±20%	1MHz	500	0.20 max.	20	1MHz	120 min.	1812
LQH43MN1R2M01	1.2 ±20%	1MHz	500	0.20 max.	20	1MHz	100 min.	1812
LQH43MN1R5M01	1.5 ±20%	1MHz	500	0.30 max.	20	1MHz	85 min.	1812
LQH43MN1R8M01	1.8 ±20%	1MHz	500	0.30 max.	20	1MHz	75 min.	1812
LQH43MN2R2M01	2.2 ±20%	1MHz	500	0.30 max.	20	1MHz	62 min.	1812
LQH43MN2R7M01	2.7 ±20%	1MHz	500	0.32 max.	20	1MHz	53 min.	1812
LQH43MN3R3M01	3.3 ±20%	1MHz	500	0.35 max.	20	1MHz	47 min.	1812
LQH43MN3R9M01	3.9 ±20%	1MHz	500	0.38 max.	20	1MHz	41 min.	1812
LQH43MN4R7K01	4.7 ±10%	1MHz	500	0.40 max.	30	1MHz	38 min.	1812
LQH43MN5R6K01	5.6 ±10%	1MHz	500	0.47 max.	30	1MHz	33 min.	1812
LQH43MN6R8K01	6.8 ±10%	1MHz	450	0.50 max.	30	1MHz	31 min.	1812
LQH43MN8R2K01	8.2 ±10%	1MHz	450	0.56 max.	30	1MHz	27 min.	1812
LQH43MN100J01	10 ±5%	1MHz	400	0.56 max.	35	1MHz	23 min.	1812
LQH43MN100K01	10 ±10%	1MHz	400	0.56 max.	35	1MHz	23 min.	1812
LQH43MN120J01	12 ±5%	1MHz	380	0.62 max.	35	1MHz	21 min.	1812
LQH43MN120K01	12 ±10%	1MHz	380	0.62 max.	35	1MHz	21 min.	1812
LQH43MN150J01	15 ±5%	1MHz	360	0.73 max.	35	1MHz	19 min.	1812
LQH43MN150K01	15 ±10%	1MHz	360	0.73 max.	35	1MHz	19 min.	1812
LQH43MN180J01	18 ±5%	1MHz	340	0.82 max.	35	1MHz	17 min.	1812
LQH43MN180K01	18 ±10%	1MHz	340	0.82 max.	35	1MHz	17 min.	1812
LQH43MN220J01	22 ±5%	1MHz	320	0.94 max.	35	1MHz	15 min.	1812
LQH43MN220K01	22 ±10%	1MHz	320	0.94 max.	35	1MHz	15 min.	1812
LQH43MN270J01	27 ±5%	1MHz	300	1.1 max.	35	1MHz	14 min.	1812
LQH43MN270K01	27 ±10%	1MHz	300	1.1 max.	35	1MHz	14 min.	1812
LQH43MN330J01	33 ±5%	1MHz	270	1.2 max.	35	1MHz	12 min.	1812
LQH43MN330K01	33 ±10%	1MHz	270	1.2 max.	35	1MHz	12 min.	1812
LQH43MN390J01	39 ±5%	1MHz	240	1.4 max.	35	1MHz	11 min.	1812
LQH43MN390K01	39 ±10%	1MHz	240	1.4 max.	35	1MHz	11 min.	1812
LQH43MN470J01	47 ±5%	1MHz	220	1.5 max.	35	1MHz	10 min.	1812
LQH43MN470K01	47 ±10%	1MHz	220	1.5 max.	35	1MHz	10 min.	1812
LQH43MN560J01	56 ±5%	1MHz	200	1.7 max.	35	1MHz	9.3 min.	1812
LQH43MN560K01	56 ±10%	1MHz	200	1.7 max.	35	1MHz	9.3 min.	1812
LQH43MN680J01	68 ±5%	1MHz	180	1.9 max.	35	1MHz	8.4 min.	1812
LQH43MN680K01	68 ±10%	1MHz	180	1.9 max.	35	1MHz	8.4 min.	1812
LQH43MN820J01	82 ±5%	1MHz	170	2.2 max.	35	1MHz	7.5 min.	1812
LQH43MN820K01	82 ±10%	1MHz	170	2.2 max.	35	1MHz	7.5 min.	1812
LQH43MN101J01	100 ±5%	1MHz	160	2.5 max.	40	796kHz	6.8 min.	1812
LQH43MN101K01	100 ±10%	1MHz	160	2.5 max.	40	796kHz	6.8 min.	1812
LQH43MN121J01	120 ±5%	1MHz	150	3.0 max.	40	796kHz	6.2 min.	1812
LQH43MN121K01	120 ±10%	1MHz	150	3.0 max.	40	796kHz	6.2 min.	1812
LQH43MN151J01	150 ±5%	1MHz	130	3.7 max.	40	796kHz	5.5 min.	1812
LQH43MN151K01	150 ±10%	1MHz	130	3.7 max.	40	796kHz	5.5 min.	1812

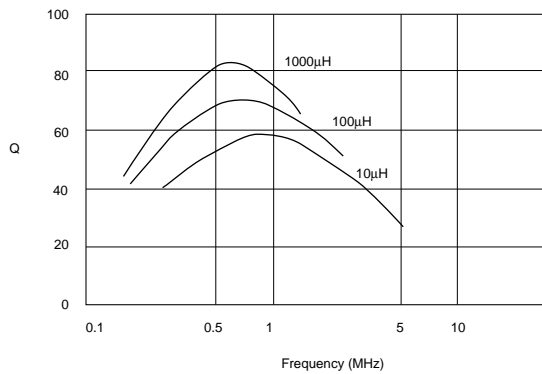
Continued on the following page.

Continued from the preceding page.

Part Number	Inductance (μH)	Test Frequency	Rated Current (mA)	DC Resistance (ohm)	Q (min.)	Test Frequency	Self Resonance Frequency (MHz)	EIA
LQH43MN181J01	180 ±5%	1MHz	120	4.5 max.	40	796kHz	5 min.	1812
LQH43MN181K01	180 ±10%	1MHz	120	4.5 max.	40	796kHz	5 min.	1812
LQH43MN221J01	220 ±5%	1MHz	110	5.4 max.	40	796kHz	4.5 min.	1812
LQH43MN221K01	220 ±10%	1MHz	110	5.4 max.	40	796kHz	4.5 min.	1812
LQH43MN271J01	270 ±5%	1MHz	100	6.8 max.	40	796kHz	4 min.	1812
LQH43MN271K01	270 ±10%	1MHz	100	6.8 max.	40	796kHz	4 min.	1812
LQH43MN331J01	330 ±5%	1MHz	95	8.2 max.	40	796kHz	3.6 min.	1812
LQH43MN331K01	330 ±10%	1MHz	95	8.2 max.	40	796kHz	3.6 min.	1812
LQH43MN391J01	390 ±5%	1MHz	90	9.7 max.	40	796kHz	3.3 min.	1812
LQH43MN391K01	390 ±10%	1MHz	90	9.7 max.	40	796kHz	3.3 min.	1812
LQH43MN471J01	470 ±5%	1kHz	80	11.8 max.	40	796kHz	3 min.	1812
LQH43MN471K01	470 ±10%	1kHz	80	11.8 max.	40	796kHz	3 min.	1812
LQH43MN561J01	560 ±5%	1kHz	70	14.5 max.	40	796kHz	2.7 min.	1812
LQH43MN561K01	560 ±10%	1kHz	70	14.5 max.	40	796kHz	2.7 min.	1812
LQH43MN681J01	680 ±5%	1kHz	65	17.0 max.	40	796kHz	2.5 min.	1812
LQH43MN681K01	680 ±10%	1kHz	65	17.0 max.	40	796kHz	2.5 min.	1812
LQH43MN821J01	820 ±5%	1kHz	60	20.5 max.	40	796kHz	2.2 min.	1812
LQH43MN821K01	820 ±10%	1kHz	60	20.5 max.	40	796kHz	2.2 min.	1812
LQH43MN102J01	1000 ±5%	1kHz	50	25.0 max.	40	252kHz	2 min.	1812
LQH43MN102K01	1000 ±10%	1kHz	50	25.0 max.	40	252kHz	2 min.	1812
LQH43MN122J01	1200 ±5%	1kHz	45	30.0 max.	40	252kHz	1.8 min.	1812
LQH43MN122K01	1200 ±10%	1kHz	45	30.0 max.	40	252kHz	1.8 min.	1812
LQH43MN152J01	1500 ±5%	1kHz	40	37.0 max.	40	252kHz	1.6 min.	1812
LQH43MN152K01	1500 ±10%	1kHz	40	37.0 max.	40	252kHz	1.6 min.	1812
LQH43NN182J01	1800 ±5%	1kHz	35	45.0 max.	40	252kHz	1.5 min.	1812
LQH43NN182K01	1800 ±10%	1kHz	35	45.0 max.	40	252kHz	1.5 min.	1812
LQH43NN222J01	2200 ±5%	1kHz	30	50.0 max.	40	252kHz	1.3 min.	1812
LQH43NN222K01	2200 ±10%	1kHz	30	50.0 max.	40	252kHz	1.3 min.	1812

Operating Temp. Range : -25°C to 85°C

Q-Frequency Characteristics



Inductance-Current Characteristics

