

Chip Coils

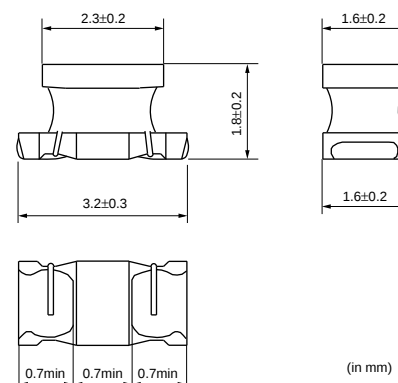


for General Use Winding Type LQH31M/LQH32M/LQH43M (N) Series

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

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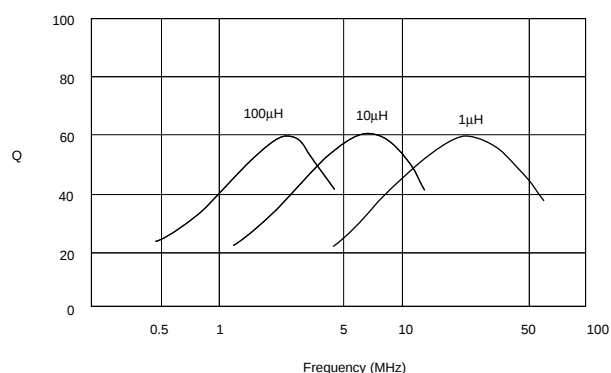
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Part Number	Inductance (μH)	Test Frequency (MHz)	Rated Current (mA)	DC Resistance (ohm)	Q (min.)	Test Frequency (MHz)	Self Resonance Frequency (MHz)	EIA
LQH31MN180K01	18 ±10%	1	85	3.4 ±30%	35	5	15 min.	1206
LQH31MN220J01	22 ±5%	1	85	3.1 ±30%	40	2.5	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

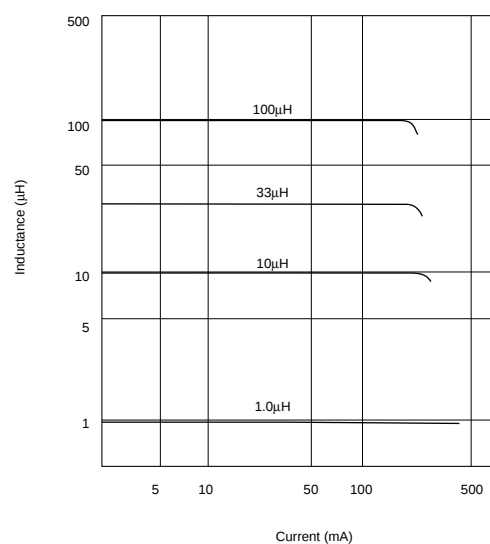
Operating Temp. Range : -25°C to 85°C

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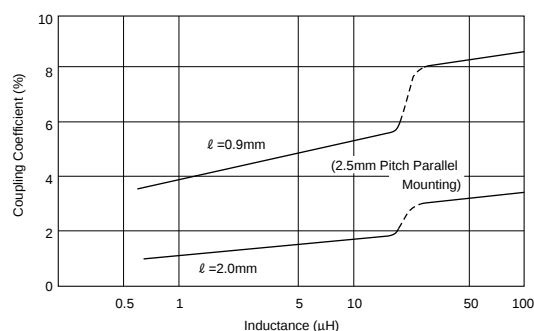
Q-Frequency Characteristics



Inductance-Current Characteristics



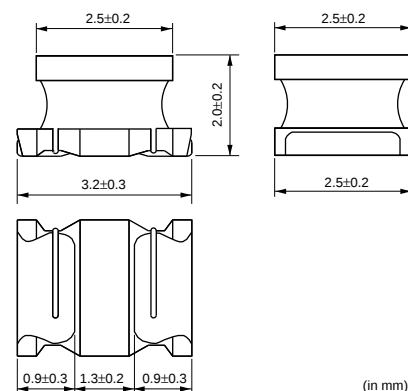
Coupling Coefficient



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

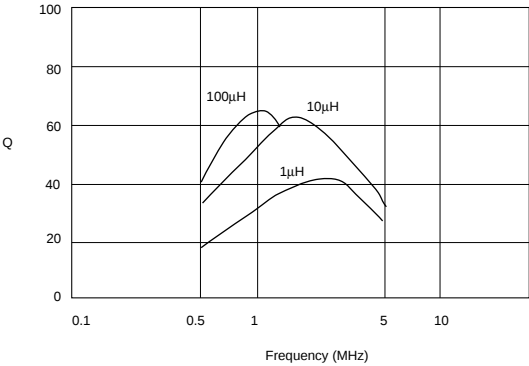
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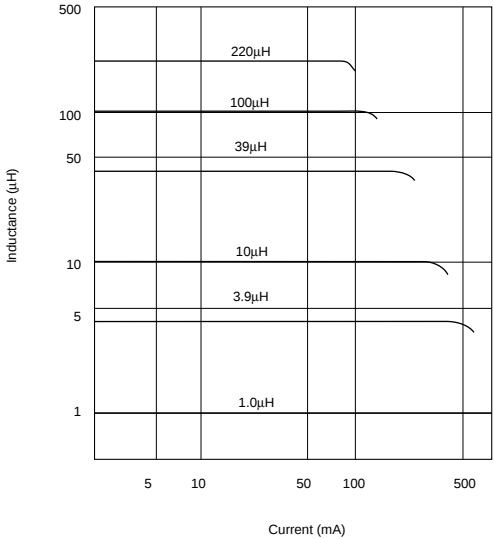
Part Number	Inductance (μH)	Test Frequency	Rated Current (mA)	DC Resistance (ohm)	Q (min.)	Test Frequency	Self Resonance Frequency (MHz)	EIA
LQH32MN181J21	180 ±5%	1MHz	65	10.2 max.	40	796kHz	6 min.	1210
LQH32MN181K21	180 ±10%	1MHz	65	10.2 max.	40	796kHz	6 min.	1210
LQH32MN221J21	220 ±5%	1MHz	65	11.8 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

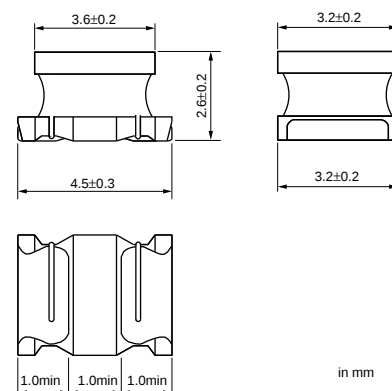


LQH43M/N Series

■ 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

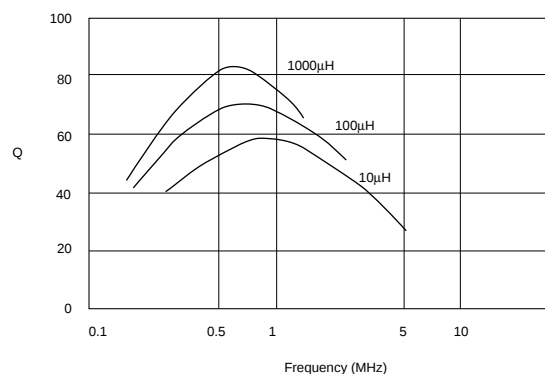
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Part Number	Inductance (μH)	Test Frequency	Rated Current (mA)	DC Resistance (ohm)	Q (min.)	Test Frequency	Self Resonance Frequency (MHz)	EIA
LQH43MN181J01	180 ±5%	1MHz	120	4.5 max.	40	796kHz	5 min.	1812
LQH43MN181K01	180 ±10%	1MHz	120	4.5 max.	40	796kHz	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

