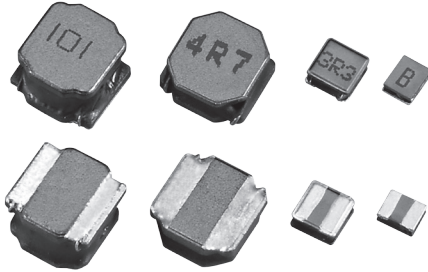




SMD Sealed Power Inductor

LQH Series



Features

- Terminals are highly resistant to pull forces.
- Highly resistant to mechanical shocks and pressure.
- Highly reliable in environments of sudden temperature change and humidity.

Application

- LCD TV, Monitor, Ap Router, STB, Smart Phone, Touch Panel, DSC, Game Console and other electronic devices

Part Numbering

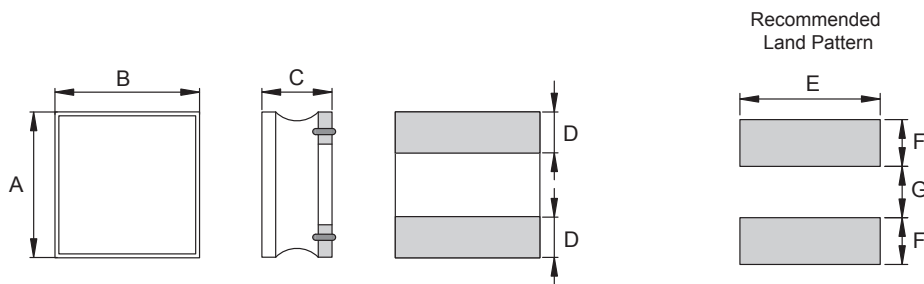
LQH 201610 - **R24** **M** - **A**

① ② ③ ④ ⑤ ⑥ ⑦

- 1 Product Group
- 2 Dimension Code
- 3 Type Code
- 4 Inductance Code: R means decimal point
Ex: R24→0.24μH
- 5 Inductance Tolerance M=±20%, N=±30%
- 6 Control Code
- 7 Automobile Code

Shapes and Dimension

LQH201610 / LQH201612 / LQH252008 / LQH252010 / LQH252012



Unit: mm

Type	A	B	C	D	E	F	G
LQH201610	2.00±0.20	1.60±0.20	1.00 (Max.)	0.60 (Ref.)	1.70	0.80	0.70
LQH201612	2.00±0.20	1.60±0.20	1.20 (Max.)	0.60 (Ref.)	2.40	1.00	0.80
LQH252008	2.50±0.30	2.00±0.35	0.80 (Max.)	0.85 (Ref.)	2.20	0.95	0.80
LQH252010	2.50±0.20	2.00±0.20	1.00 (Max.)	0.85 (Ref.)	2.10	0.90	0.80
LQH252012	2.50±0.20	2.00±0.20	1.20 (Max.)	0.85 (Ref.)	2.10	0.90	0.80

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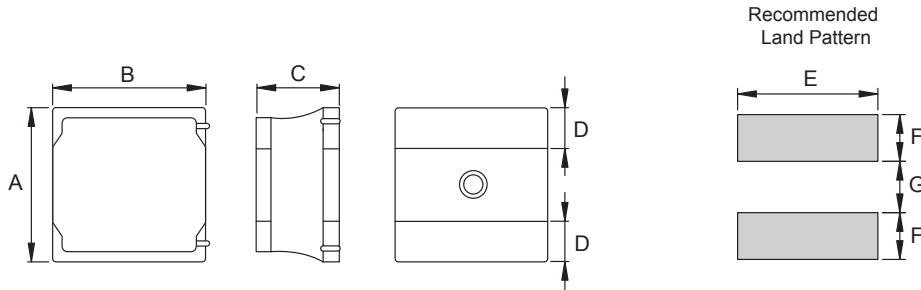


SMD Sealed Power Inductor

LQH Series

Shapes and Dimension

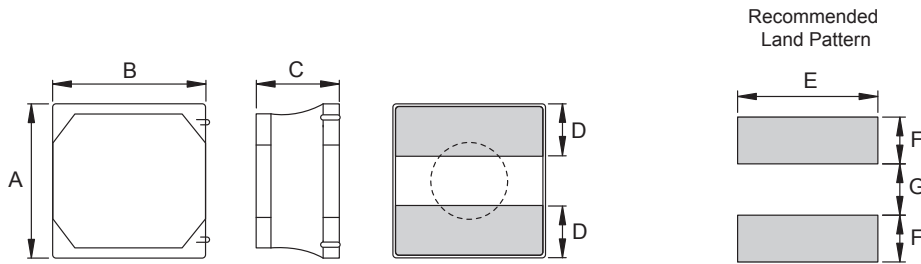
LQH3010 / LQH3012 / LQH3015



Unit: mm

Type	A	B	C	D	E	F	G
LQH3010	3.00±0.20	3.00±0.20	1.00 (Max.)	1.00 (Typ.)	3.20	1.10	1.00
LQH3012	3.00±0.20	3.00±0.20	1.20 (Max.)	1.00 (Typ.)	3.20	1.10	1.00
LQH3015	3.00±0.20	3.00±0.20	1.50 (Max.)	1.00 (Typ.)	3.20	1.10	1.00

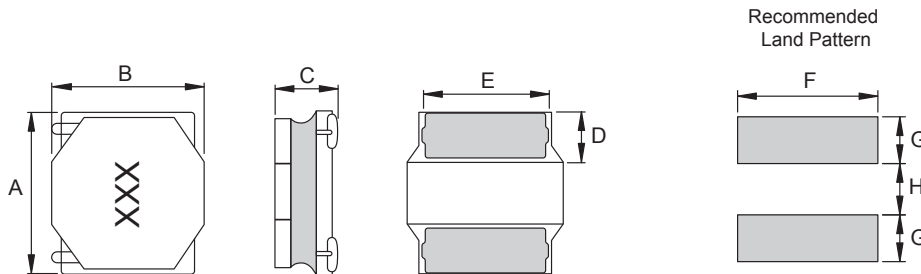
LQH4010 / LQH4012



Unit: mm

Type	A	B	C	D	E	F	G
LQH4010	4.00±0.20	4.00±0.20	1.00 (Max.)	1.20 (Typ.)	4.20	1.50	1.20
LQH4012	4.00±0.20	4.00±0.20	1.20 (Max.)	1.20 (Typ.)	4.20	1.50	1.20

LQH5020 / LQH5040 / LQH6020 / LQH6028



Unit: mm

Type	A	B	C	D	E	F	G	H
LQH5020	5.00±0.20	5.00±0.20	1.80±0.20	1.30±0.30	4.70±0.30	4.70	1.50	2.10
LQH5040	5.00±0.20	5.00±0.20	3.90±0.30	1.30±0.30	4.20±0.20	4.20	1.50	2.20
LQH6020	6.00±0.20	6.00±0.20	1.80±0.20	1.60±0.30	5.80±0.30	5.80	1.80	2.50
LQH6028	6.00±0.30	6.00±0.30	2.60±0.30	1.60±0.30	5.80±0.30	5.80	1.80	2.50

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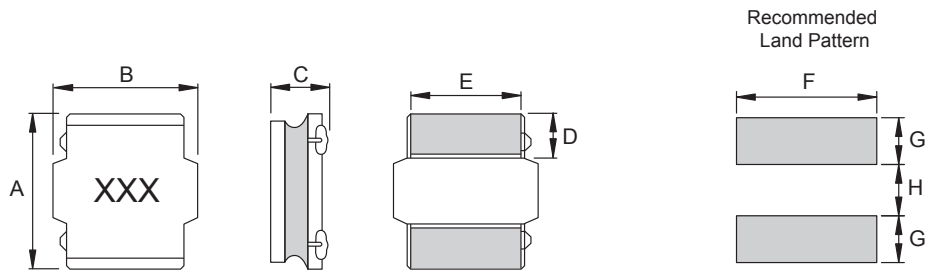


SMD Sealed Power Inductor

LQH Series

Shapes and Dimension

LQH6045 / LQH8040



Unit: mm

Type	A	B	C	D	E	F	G	H
LQH6045	6.00±0.30	6.00±0.20	4.20±0.30	1.90±0.30	4.80±0.30	5.10	2.35	1.80
LQH8040	8.00±0.30	8.00±0.30	3.90±0.30	2.40±0.30	6.30±0.30	6.60	2.85	2.80

General Technical Data

Operating Temperature Range	-40°C ~ +125°C
Storage Temperature	40°C Max. , 70%RHMax.

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SMD Sealed Power Inductor

LQH Series

Electrical Characteristics

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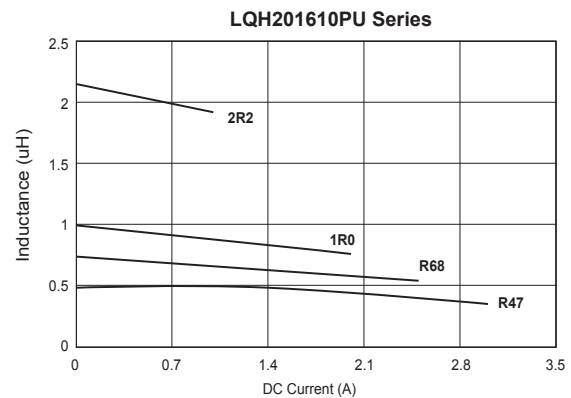
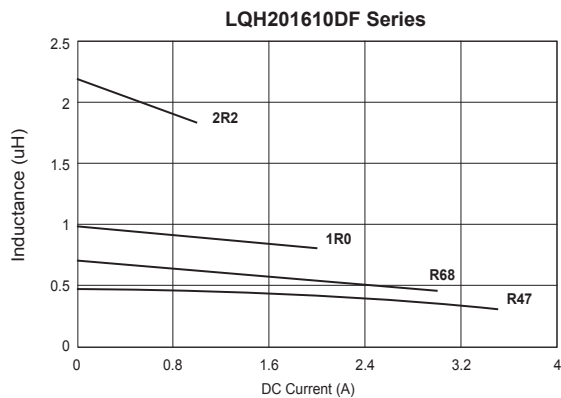
Part Number	Inductance	Test Frequency	DC Resistance (RDC) Typ.	Saturation Current (I_{SAT}) Typ. / Max.	Temperature Rise Current (I_{RMS}) Typ. / Max.
LQH201610DF Series					
LQH201610DF-R24M-□A	0.24 μ H \pm 20%	1MHz	0.023 Ω	5.10A / 4.50A	4.40A / 3.90A
LQH201610DF-R33M-□A	0.33 μ H \pm 20%	1MHz	0.031 Ω	3.90A / 3.50A	3.50A / 3.10A
LQH201610DF-R47M-□A	0.47 μ H \pm 20%	1MHz	0.035 Ω	3.80A / 3.40A	3.30A / 3.00A
LQH201610DF-R68M-□A	0.68 μ H \pm 20%	1MHz	0.046 Ω	3.20A / 2.80A	2.80A / 2.50A
LQH201610DF-1R0M-□A	1.00 μ H \pm 20%	1MHz	0.059 Ω	2.90A / 2.50A	2.40A / 2.20A
LQH201610DF-1R5M-□A	1.50 μ H \pm 20%	1MHz	0.098 Ω	2.30A / 1.80A	2.10A / 1.80A
LQH201610DF-2R2M-□A	2.20 μ H \pm 20%	1MHz	0.141 Ω	2.10A / 1.70A	1.70A / 1.50A

- Saturation Current for Inductance becomes 30% lower than its initial value
- Temperature Rise Current for a 40°C rise above 25°C ambient

AEC
Q200

Part Number	Inductance	Test Frequency	DC Resistance (RDC) \pm 20%	Saturation Current (I_{SAT}) Typ. / Max.	Temperature Rise Current (I_{RMS}) Typ. / Max.
LQH201610PU Series					
LQH201610PU-R47N-□A	0.47 μ H \pm 30%	1MHz	0.044 Ω	3.00A / 2.70A	2.60A / 2.35A
LQH201610PU-R68N-□A	0.68 μ H \pm 30%	1MHz	0.062 Ω	2.45A / 2.00A	2.25A / 2.05A
LQH201610PU-1R0N-□A	1.00 μ H \pm 30%	1MHz	0.080 Ω	1.95A / 1.80A	1.75A / 1.60A
LQH201610PU-1R5N-□A	1.50 μ H \pm 30%	1MHz	0.130 Ω	1.65A / 1.46A	1.40A / 1.26A
LQH201610PU-2R2M-□A	2.20 μ H \pm 20%	1MHz	0.145 Ω	1.45A / 1.26A	1.35A / 1.20A
LQH201610PU-3R3M-□A	3.30 μ H \pm 20%	1MHz	0.245 Ω	1.05A / 0.90A	1.05A / 0.95A
LQH201610PU-4R7M-□A	4.70 μ H \pm 20%	1MHz	0.360 Ω	0.85A / 0.77A	1.00A / 0.90A
LQH201610PU-6R8M-□A	6.80 μ H \pm 20%	1MHz	0.500 Ω	0.80A / 0.72A	0.70A / 0.55A
LQH201610PU-100M-□A	10.00 μ H \pm 20%	1MHz	0.720 Ω	0.62A / 0.55A	0.50A / 0.45A
LQH201610PU-150M-□A	15.00 μ H \pm 20%	1MHz	1.400 Ω	0.50A / 0.45A	0.40A / 0.36A
LQH201610PU-180M-□A	18.00 μ H \pm 20%	1MHz	1.800 Ω	0.45A / 0.40A	0.38A / 0.34A
LQH201610PU-220M-□A	22.00 μ H \pm 20%	1MHz	2.000 Ω	0.43A / 0.38A	0.30A / 0.27A

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SMD Sealed Power Inductor

LQH Series

Electrical Characteristics

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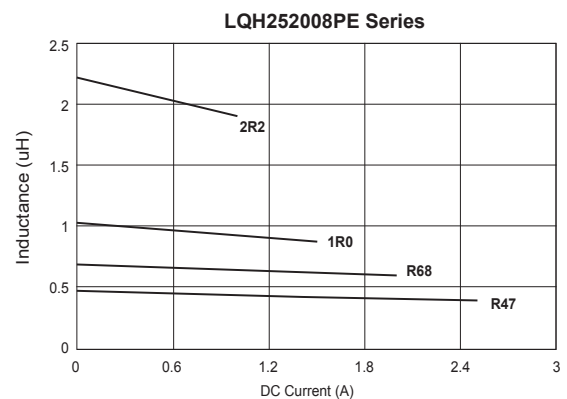
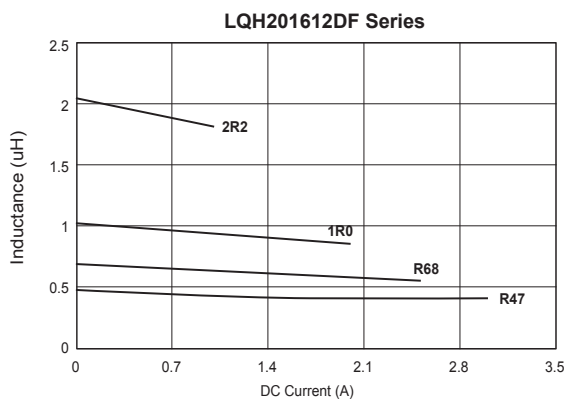
Part Number	Inductance	Test Frequency	DC Resistance (RDC) Typ.	Saturation Current (I_{SAT}) Typ. / Max.	Temperature Rise Current (I_{RMS}) Typ. / Max.
LQH201612DF Series					
LQH201612DF-R24M-□A	0.24 μ H \pm 20%	1MHz	0.025 Ω	5.40A / 4.80A	4.00A / 3.50A
LQH201612DF-R33M-□A	0.33 μ H \pm 20%	1MHz	0.027 Ω	4.70A / 3.90A	3.90A / 3.20A
LQH201612DF-R47M-□A	0.47 μ H \pm 20%	1MHz	0.035 Ω	3.90A / 3.50A	3.30A / 2.90A
LQH201612DF-R56M-□A	0.56 μ H \pm 20%	1MHz	0.053 Ω	3.50A / 3.00A	3.00A / 2.60A
LQH201612DF-R68M-□A	0.68 μ H \pm 20%	1MHz	0.055 Ω	3.30A / 2.80A	3.00A / 2.60A
LQH201612DF-1R0M-□A	1.00 μ H \pm 20%	1MHz	0.080 Ω	3.00A / 2.50A	2.70A / 2.30A
LQH201612DF-1R2M-□A	1.20 μ H \pm 20%	1MHz	0.088 Ω	3.00A / 2.50A	2.70A / 2.30A
LQH201612DF-1R5M-□A	1.50 μ H \pm 20%	1MHz	0.090 Ω	2.50A / 2.00A	2.10A / 1.80A
LQH201612DF-2R2M-□A	2.20 μ H \pm 20%	1MHz	0.155 Ω	2.00A / 1.60A	1.50A / 1.30A

- Saturation Current for Inductance becomes 30% lower than its initial value
- Temperature Rise Current for a 40°C rise above 25°C ambient

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Part Number	Inductance	Test Frequency	DC Resistance (RDC) Typ./Max	Saturation Current (I_{SAT}) Typ. / Max.	Temperature Rise Current (I_{RMS}) Typ. / Max.
LQH252008PE Series					
LQH252008PE-R47M-□A	0.47 μ H \pm 20%	1MHz	0.080 Ω / 0.096 Ω	2.50A / 2.20A	1.45A / 1.25A
LQH252008PE-R68M-□A	0.68 μ H \pm 20%	1MHz	0.100 Ω / 0.120 Ω	2.05A / 1.80A	1.35A / 1.15A
LQH252008PE-1R0M-□A	1.00 μ H \pm 20%	1MHz	0.120 Ω / 0.145 Ω	1.75A / 1.50A	1.20A / 1.05A
LQH252008PE-1R5M-□A	1.50 μ H \pm 20%	1MHz	0.170 Ω / 0.200 Ω	1.65A / 1.45A	1.05A / 0.95A
LQH252008PE-2R2M-□A	2.20 μ H \pm 20%	1MHz	0.210 Ω / 0.250 Ω	1.40A / 1.20A	0.95A / 0.85A
LQH252008PE-3R3M-□A	3.30 μ H \pm 20%	1MHz	0.300 Ω / 0.360 Ω	1.10A / 0.95A	0.85A / 0.75A
LQH252008PE-4R7M-□A	4.70 μ H \pm 20%	1MHz	0.400 Ω / 0.480 Ω	0.90A / 0.80A	0.70A / 0.63A
LQH252008PE-6R8M-□A	6.80 μ H \pm 20%	1MHz	0.670 Ω / 0.800 Ω	0.75A / 0.65A	0.55A / 0.50A
LQH252008PE-100M-□A	10.00 μ H \pm 20%	1MHz	0.930 Ω / 1.110 Ω	0.55A / 0.50A	0.45A / 0.41A

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SMD Sealed Power Inductor

LQH Series

Electrical Characteristics

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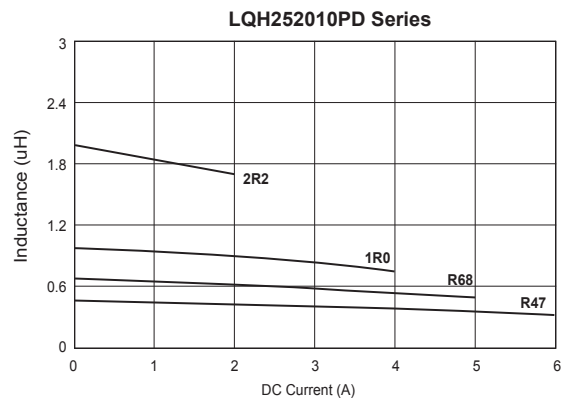
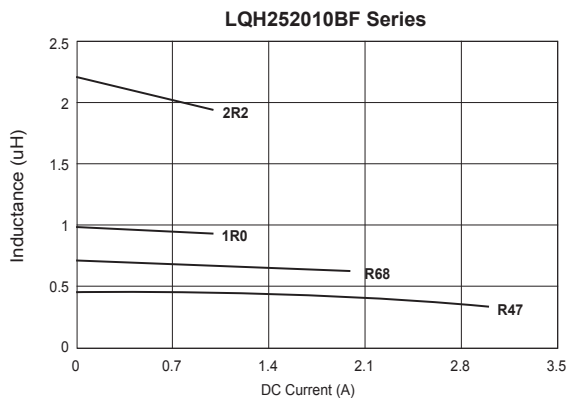
Part Number	Inductance	Test Frequency	DC Resistance (RDC) $\pm 20\%$	Saturation Current (I_{SAT}) Typ. / Max.	Temperature Rise Current (I_{RMS}) Typ. / Max.
LQH252010BF Series					
LQH252010BF-R47N-□A	0.47 μ H $\pm 30\%$	1MHz	0.030 Ω	2.85A / 2.57A	2.80A / 2.50A
LQH252010BF-R68N-□A	0.68 μ H $\pm 30\%$	1MHz	0.039 Ω	2.70A / 2.45A	2.45A / 2.20A
LQH252010BF-1R0N-□A	1.00 μ H $\pm 30\%$	1MHz	0.055 Ω	2.45A / 2.05A	2.20A / 1.80A
LQH252010BF-1R5N-□A	1.50 μ H $\pm 30\%$	1MHz	0.090 Ω	1.80A / 1.70A	1.70A / 1.55A
LQH252010BF-2R2M-□A	2.20 μ H $\pm 20\%$	1MHz	0.114 Ω	1.60A / 1.55A	1.55A / 1.40A
LQH252010BF-3R3M-□A	3.30 μ H $\pm 20\%$	1MHz	0.170 Ω	1.30A / 1.10A	1.25A / 1.10A
LQH252010BF-4R7M-□A	4.70 μ H $\pm 20\%$	1MHz	0.250 Ω	1.10A / 0.95A	1.05A / 0.92A
LQH252010BF-6R8M-□A	6.80 μ H $\pm 20\%$	1MHz	0.370 Ω	0.95A / 0.80A	0.85A / 0.76A
LQH252010BF-100M-□A	10.00 μ H $\pm 20\%$	1MHz	0.470 Ω	0.75A / 0.65A	0.75A / 0.67A
LQH252010BF-150M-□A	15.00 μ H $\pm 20\%$	1MHz	0.750 Ω	0.55A / 0.45A	0.55A / 0.50A
LQH252010BF-220M-□A	22.00 μ H $\pm 20\%$	1MHz	1.120 Ω	0.50A / 0.40A	0.50A / 0.45A

- Saturation Current for Inductance becomes 30% lower than its initial value
- Temperature Rise Current for a 40°C rise above 25°C ambient

AEC
Q200

Part Number	Inductance	Test Frequency	DC Resistance (RDC) Typ./Max	Saturation Current (I_{SAT}) Typ. / Max.	Temperature Rise Current (I_{RMS}) Typ. / Max.
LQH252010PD Series					
LQH252010PD-R24M-□A	0.24 μ H $\pm 20\%$	1MHz	0.030 Ω / 0.042 Ω	4.80A / 4.30A	3.60A / 3.10A
LQH252010PD-R33M-□A	0.33 μ H $\pm 20\%$	1MHz	0.032 Ω / 0.044 Ω	4.30A / 3.80A	3.50A / 3.00A
LQH252010PD-R47M-□A	0.47 μ H $\pm 20\%$	1MHz	0.034 Ω / 0.046 Ω	4.00A / 3.30A	3.40A / 2.90A
LQH252010PD-R68M-□A	0.68 μ H $\pm 20\%$	1MHz	0.046 Ω / 0.055 Ω	3.70A / 2.90A	3.30A / 2.80A
LQH252010PD-1R0M-□A	1.00 μ H $\pm 20\%$	1MHz	0.060 Ω / 0.080 Ω	3.40A / 2.70A	2.60A / 2.20A
LQH252010PD-1R5M-□A	1.50 μ H $\pm 20\%$	1MHz	0.090 Ω / 0.108 Ω	2.70A / 2.10A	2.30A / 1.90A
LQH252010PD-2R2M-□A	2.20 μ H $\pm 20\%$	1MHz	0.130 Ω / 0.169 Ω	2.40A / 1.90A	1.80A / 1.50A

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LQH Series

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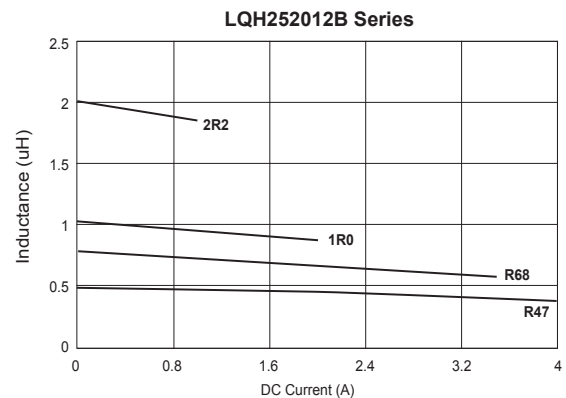
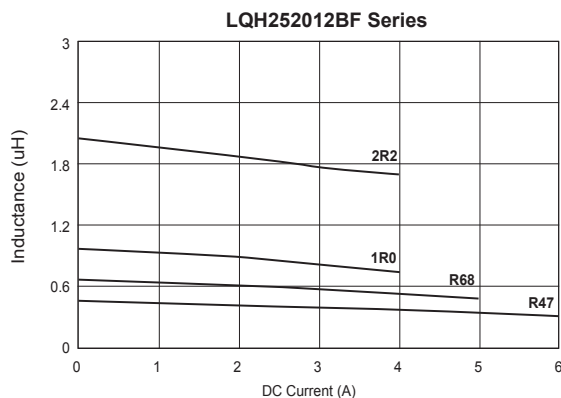
Part Number	Inductance	Test Frequency	DC Resistance (RDC) Max.	Saturation Current (I_{SAT}) Typ. / Max.	Temperature Rise Current (I_{RMS}) Typ. / Max.
LQH252012BF Series					
LQH252012BF-R24M-□A	0.24μH±20%	1MHz	0.028Ω	8.00A / 6.50A	4.70A / 4.20A
LQH252012BF-R33M-□A	0.33μH±20%	1MHz	0.032Ω	5.70A / 4.60A	4.50A / 4.00A
LQH252012BF-R47M-□A	0.47μH±20%	1MHz	0.032Ω	5.50A / 4.50A	4.40A / 3.90A
LQH252012BF-R68M-□A	0.68μH±20%	1MHz	0.043Ω	4.50A / 3.80A	3.60A / 3.20A
LQH252012BF-1R0M-□A	1.00μH±20%	1MHz	0.057Ω	3.90A / 3.40A	3.50A / 3.10A
LQH252012BF-1R5M-□A	1.50μH±20%	1MHz	0.096Ω	3.00A / 2.60A	2.50A / 2.20A
LQH252012BF-2R2M-□A	2.20μH±20%	1MHz	0.102Ω	2.70A / 2.30A	2.30A / 2.00A

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- Temperature Rise Current for a 40°C rise above 25°C ambient

AEC
Q200

Part Number	Inductance	Test Frequency	DC Resistance (RDC) ±20%	Saturation Current (I_{SAT}) Typ. / Max.	Temperature Rise Current (I_{RMS}) Typ. / Max.
LQH252012B Series					
LQH252012B-R47N-□A	0.47μH±30%	1MHz	0.028Ω	4.00A / 3.60A	3.70A / 3.35A
LQH252012B-R68M-□A	0.68μH±20%	1MHz	0.036Ω	3.00A / 2.70A	3.30A / 3.00A
LQH252012B-1R0N-□A	1.00μH±30%	1MHz	0.049Ω	2.70A / 2.45A	2.60A / 2.30A
LQH252012B-1R5N-□A	1.50μH±30%	1MHz	0.063Ω	2.30A / 2.05A	2.20A / 1.95A
LQH252012B-2R2M-□A	2.20μH±20%	1MHz	0.080Ω	2.15A / 1.95A	1.85A / 1.65A
LQH252012B-3R3M-□A	3.30μH±20%	1MHz	0.120Ω	1.70A / 1.50A	1.45A / 1.30A
LQH252012B-4R7M-□A	4.70μH±20%	1MHz	0.176Ω	1.50A / 1.35A	1.20A / 1.05A
LQH252012B-6R8M-□A	6.80μH±20%	1MHz	0.250Ω	1.15A / 1.00A	1.00A / 0.90A
LQH252012B-100M-□A	10.00μH±20%	1MHz	0.410Ω	0.85A / 0.75A	0.75A / 0.65A
LQH252012B-150M-□A	15.00μH±20%	1MHz	0.540Ω	0.63A / 0.56A	0.60A / 0.54A
LQH252012B-220M-□A	22.00μH±20%	1MHz	0.850Ω	0.56A / 0.50A	0.50A / 0.45A

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SMD Sealed Power Inductor

LQH Series

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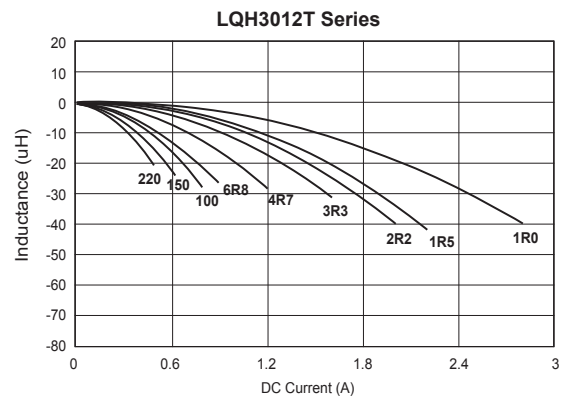
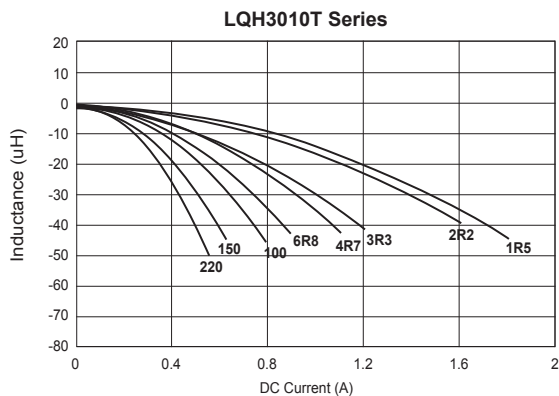
Part Number	Inductance	Test Frequency	DC Resistance (RDC) $\pm 20\%$	Saturation Current (I_{SAT}) Typ. / Max.	Temperature Rise Current (I_{RMS}) Typ. / Max.
LQH3010T Series					
LQH3010T-1R0N-□A	1.00 μ H $\pm 30\%$	1MHz	0.055 Ω	2.20A / 1.80A	2.50A / 2.10A
LQH3010T-1R5N-□A	1.50 μ H $\pm 30\%$	1MHz	0.070 Ω	2.00A / 1.50A	2.20A / 1.90A
LQH3010T-2R2M-□A	2.20 μ H $\pm 20\%$	1MHz	0.090 Ω	1.60A / 1.30A	2.10A / 1.70A
LQH3010T-3R3M-□A	3.30 μ H $\pm 20\%$	1MHz	0.130 Ω	1.30A / 1.10A	1.70A / 1.50A
LQH3010T-4R7M-□A	4.70 μ H $\pm 20\%$	1MHz	0.170 Ω	1.20A / 0.90A	1.50A / 1.30A
LQH3010T-6R8M-□A	6.80 μ H $\pm 20\%$	1MHz	0.260 Ω	0.90A / 0.77A	1.30A / 1.00A
LQH3010T-100M-□A	10.0 μ H $\pm 20\%$	1MHz	0.350 Ω	0.75A / 0.63A	1.00A / 0.80A
LQH3010T-150M-□A	15.0 μ H $\pm 20\%$	1MHz	0.510 Ω	0.65A / 0.54A	0.80A / 0.70A
LQH3010T-220M-□A	22.0 μ H $\pm 20\%$	1MHz	0.750 Ω	0.55A / 0.43A	0.75A / 0.60A

- Saturation Current for Inductance becomes 30% lower than its initial value
- Temperature Rise Current for a 40°C rise above 25°C ambient

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Part Number	Inductance	Test Frequency	DC Resistance (RDC) $\pm 20\%$	Saturation Current (I_{SAT}) Typ. / Max.	Temperature Rise Current (I_{RMS}) Typ. / Max.
LQH3012T Series					
LQH3012T-1R0N-□A	1.00 μ H $\pm 30\%$	1MHz	0.042 Ω	2.50A / 2.15A	2.20A / 2.00A
LQH3012T-1R5N-□A	1.50 μ H $\pm 30\%$	1MHz	0.056 Ω	2.00A / 1.70A	2.00A / 1.85A
LQH3012T-2R2M-□A	2.20 μ H $\pm 20\%$	1MHz	0.080 Ω	1.80A / 1.50A	1.90A / 1.70A
LQH3012T-3R3M-□A	3.30 μ H $\pm 20\%$	1MHz	0.100 Ω	1.50A / 1.20A	1.70A / 1.55A
LQH3012T-4R7M-□A	4.70 μ H $\pm 20\%$	1MHz	0.130 Ω	1.30A / 1.05A	1.50A / 1.30A
LQH3012T-6R8M-□A	6.80 μ H $\pm 20\%$	1MHz	0.180 Ω	1.20A / 0.90A	1.20A / 1.05A
LQH3012T-100M-□A	10.00 μ H $\pm 20\%$	1MHz	0.245 Ω	0.90A / 0.76A	1.00A / 0.89A
LQH3012T-150M-□A	15.00 μ H $\pm 20\%$	1MHz	0.386 Ω	0.80A / 0.62A	0.90A / 0.74A
LQH3012T-220M-□A	22.00 μ H $\pm 20\%$	1MHz	0.580 Ω	0.60A / 0.49A	0.70A / 0.61A

- Saturation Current for Inductance becomes 30% lower than its initial value
- Temperature Rise Current for a 40°C rise above 25°C ambient



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SMD Sealed Power Inductor

LQH Series

Electrical Characteristics

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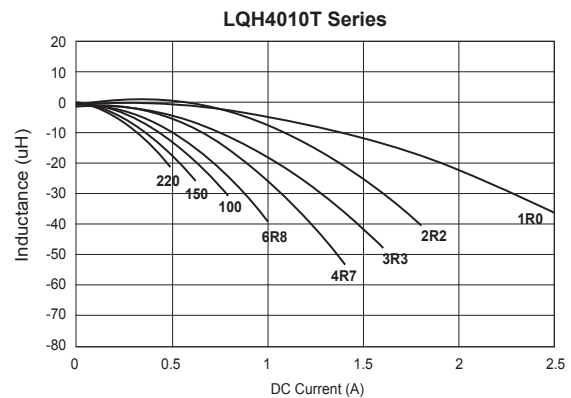
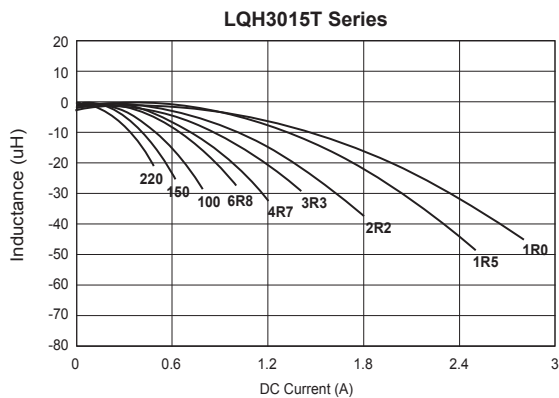
Part Number	Inductance	Test Frequency	DC Resistance (RDC) $\pm 20\%$	Saturation Current (I_{SAT}) Typ. / Max.	Temperature Rise Current (I_{RMS}) Typ. / Max.
LQH3015T Series					
LQH3015T-1R0N-□A	1.00 μ H $\pm 30\%$	100KHz	0.030 Ω	2.20A / 2.00A	2.20A / 2.00A
LQH3015T-1R5N-□A	1.50 μ H $\pm 30\%$	100KHz	0.040 Ω	2.00A / 1.80A	2.00A / 1.80A
LQH3015T-2R2M-□A	2.20 μ H $\pm 20\%$	100KHz	0.060 Ω	1.70A / 1.50A	1.70A / 1.50A
LQH3015T-3R3M-□A	3.30 μ H $\pm 20\%$	100KHz	0.080 Ω	1.40A / 1.20A	1.40A / 1.20A
LQH3015T-4R7M-□A	4.70 μ H $\pm 20\%$	100KHz	0.120 Ω	1.20A / 1.00A	1.20A / 1.00A
LQH3015T-6R8M-□A	6.80 μ H $\pm 20\%$	100KHz	0.160 Ω	1.00A / 0.90A	1.00A / 0.90A
LQH3015T-100M-□A	10.00 μ H $\pm 20\%$	100KHz	0.220 Ω	0.75A / 0.65A	0.80A / 0.70A
LQH3015T-150M-□A	15.00 μ H $\pm 20\%$	100KHz	0.320 Ω	0.65A / 0.55A	0.70A / 0.60A
LQH3015T-220M-□A	22.00 μ H $\pm 20\%$	100KHz	0.460 Ω	0.55A / 0.45A	0.60A / 0.50A
LQH3015T-330M-□A	33.00 μ H $\pm 20\%$	100KHz	0.800 Ω	0.40A / 0.35A	0.45A / 0.40A
LQH3015T-470M-□A	47.00 μ H $\pm 20\%$	100KHz	1.200 Ω	0.35A / 0.30A	0.40A / 0.35A

- Saturation Current for Inductance becomes 30% lower than its initial value
- Temperature Rise Current for a 40°C rise above 25°C ambient

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Part Number	Inductance	Test Frequency	DC Resistance (RDC) $\pm 20\%$	Saturation Current (I_{SAT}) Typ. / Max.	Temperature Rise Current (I_{RMS}) Typ. / Max.
LQH4010T Series					
LQH4010T-1R0N-□A	1.00 μ H $\pm 30\%$	100KHz	0.056 Ω	2.40A / 2.00A	2.30A / 1.90A
LQH4010T-2R2M-□A	2.20 μ H $\pm 20\%$	100KHz	0.085 Ω	1.50A / 1.20A	1.80A / 1.50A
LQH4010T-3R3M-□A	3.30 μ H $\pm 20\%$	100KHz	0.100 Ω	1.30A / 1.10A	1.70A / 1.40A
LQH4010T-4R7M-□A	4.70 μ H $\pm 20\%$	100KHz	0.140 Ω	1.20A / 0.95A	1.50A / 1.20A
LQH4010T-6R8M-□A	6.80 μ H $\pm 20\%$	100KHz	0.200 Ω	1.00A / 0.80A	1.20A / 1.00A
LQH4010T-100M-□A	10.00 μ H $\pm 20\%$	100KHz	0.300 Ω	0.80A / 0.62A	0.90A / 0.75A
LQH4010T-150M-□A	15.00 μ H $\pm 20\%$	100KHz	0.430 Ω	0.70A / 0.54A	0.80A / 0.60A
LQH4010T-220M-□A	22.00 μ H $\pm 20\%$	100KHz	0.570 Ω	0.60A / 0.45A	0.80A / 0.50A

- Saturation Current for Inductance becomes 30% lower than its initial value
- Temperature Rise Current for a 40°C rise above 25°C ambient



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LQH Series

Electrical Characteristics

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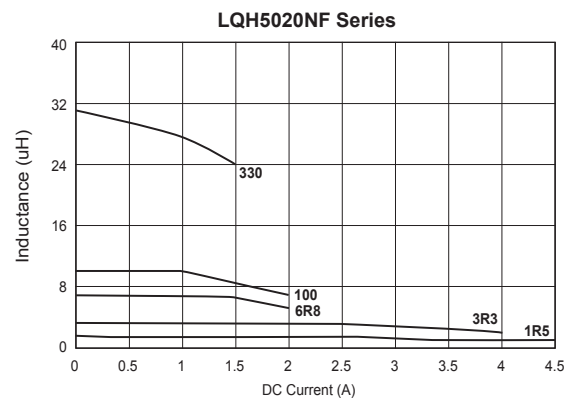
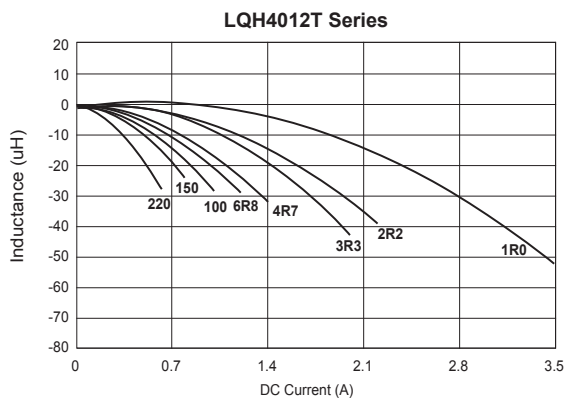
Part Number	Inductance	Test Frequency	DC Resistance (RDC) $\pm 20\%$	Saturation Current (I_{SAT}) Typ. / Max.	Temperature Rise Current (I_{RMS}) Typ. / Max.
LQH4012T Series					
LQH4012T-1R0N-□A	1.00 μ H $\pm 30\%$	100KHz	0.042 Ω	3.30A / 2.80A	2.50A / 2.20A
LQH4012T-2R2M-□A	2.20 μ H $\pm 20\%$	100KHz	0.060 Ω	1.95A / 1.65A	2.20A / 1.90A
LQH4012T-3R3M-□A	3.30 μ H $\pm 20\%$	100KHz	0.070 Ω	1.60A / 1.40A	1.90A / 1.70A
LQH4012T-4R7M-□A	4.70 μ H $\pm 20\%$	100KHz	0.095 Ω	1.40A / 1.20A	1.70A / 1.50A
LQH4012T-6R8M-□A	6.80 μ H $\pm 20\%$	100KHz	0.125 Ω	1.10A / 0.90A	1.50A / 1.30A
LQH4012T-100M-□A	10.00 μ H $\pm 20\%$	100KHz	0.180 Ω	1.00A / 0.80A	1.30A / 1.10A
LQH4012T-150M-□A	15.00 μ H $\pm 20\%$	100KHz	0.260 Ω	0.80A / 0.65A	0.95A / 0.75A
LQH4012T-220M-□A	22.00 μ H $\pm 20\%$	100KHz	0.400 Ω	0.60A / 0.50A	0.72A / 0.62A

- Saturation Current for Inductance becomes 30% lower than its initial value
- Temperature Rise Current for a 40°C rise above 25°C ambient

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Part Number	Inductance	Test Frequency	DC Resistance (RDC) $\pm 20\%$	Saturation Current (I_{SAT})	Temperature Rise Current (I_{RMS})
LQH5020NF Series					
LQH5020NF-1R0N-□A	1.00 μ H $\pm 30\%$	100KHz	0.020 Ω	5.00A	4.10A
LQH5020NF-1R2N-□A	1.20 μ H $\pm 30\%$	100KHz	0.020 Ω	4.80A	3.80A
LQH5020NF-1R5N-□A	1.50 μ H $\pm 30\%$	100KHz	0.025 Ω	4.50A	3.50A
LQH5020NF-2R2M-□A	2.20 μ H $\pm 20\%$	100KHz	0.032 Ω	4.10A	3.30A
LQH5020NF-3R3M-□A	3.30 μ H $\pm 20\%$	100KHz	0.043 Ω	3.50A	2.80A
LQH5020NF-4R7M-□A	4.70 μ H $\pm 20\%$	100KHz	0.060 Ω	2.70A	2.40A
LQH5020NF-5R6M-□A	5.60 μ H $\pm 20\%$	100KHz	0.069 Ω	2.40A	2.10A
LQH5020NF-6R8M-□A	6.80 μ H $\pm 20\%$	100KHz	0.090 Ω	2.10A	1.90A
LQH5020NF-8R2M-□A	8.20 μ H $\pm 20\%$	100KHz	0.098 Ω	1.90A	1.75A
LQH5020NF-100M-□A	10.00 μ H $\pm 20\%$	100KHz	0.110 Ω	1.70A	1.60A
LQH5020NF-120M-□A	12.00 μ H $\pm 20\%$	100KHz	0.135 Ω	1.40A	1.40A
LQH5020NF-150M-□A	15.00 μ H $\pm 20\%$	100KHz	0.165 Ω	1.30A	1.25A
LQH5020NF-180M-□A	18.00 μ H $\pm 20\%$	100KHz	0.190 Ω	1.20A	1.17A
LQH5020NF-220M-□A	22.00 μ H $\pm 20\%$	100KHz	0.225 Ω	1.10A	1.10A
LQH5020NF-330M-□A	33.00 μ H $\pm 20\%$	100KHz	0.335 Ω	0.80A	0.80A
LQH5020NF-470M-□A	47.00 μ H $\pm 20\%$	100KHz	0.460 Ω	0.70A	0.70A

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- Temperature Rise Current for a 40°C rise above 25°C ambient



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LQH Series

Electrical Characteristics

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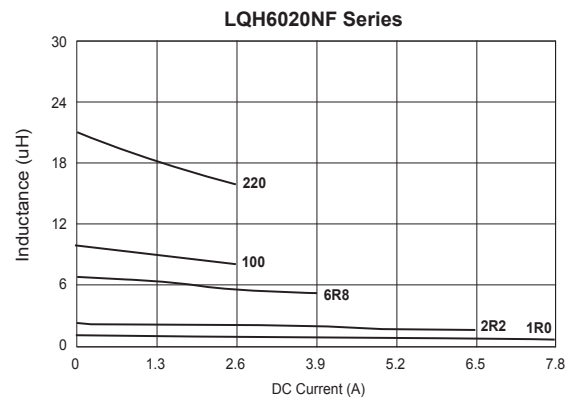
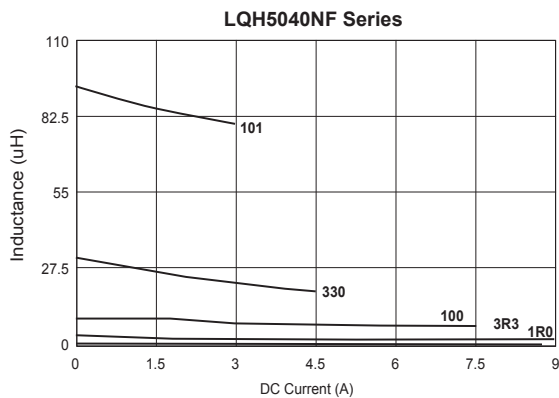
Part Number	Inductance	Test Frequency	DC Resistance (RDC) $\pm 20\%$	Saturation Current (I_{SAT})	Temperature Rise Current (I_{RMS})
LQH5040NF Series					
LQH5040NF-1R0M-□A	1.00 μ H $\pm 20\%$	100KHz	12.0m Ω	7.50A	5.00A
LQH5040NF-1R5M-□A	1.50 μ H $\pm 20\%$	100KHz	15.0m Ω	6.50A	4.50A
LQH5040NF-2R2M-□A	2.20 μ H $\pm 20\%$	100KHz	21.0m Ω	5.70A	3.80A
LQH5040NF-3R3M-□A	3.30 μ H $\pm 20\%$	100KHz	24.0m Ω	4.40A	3.50A
LQH5040NF-4R7M-□A	4.70 μ H $\pm 20\%$	100KHz	32.0m Ω	3.90A	3.20A
LQH5040NF-6R8M-□A	6.80 μ H $\pm 20\%$	100KHz	43.0m Ω	3.30A	2.50A
LQH5040NF-100M-□A	10.00 μ H $\pm 20\%$	100KHz	56.0m Ω	2.52A	2.20A
LQH5040NF-150M-□A	15.00 μ H $\pm 20\%$	100KHz	80.0m Ω	2.00A	1.80A
LQH5040NF-220M-□A	22.00 μ H $\pm 20\%$	100KHz	123.0m Ω	1.62A	1.50A
LQH5040NF-330M-□A	33.00 μ H $\pm 20\%$	100KHz	180.0m Ω	1.30A	1.20A
LQH5040NF-470M-□A	47.00 μ H $\pm 20\%$	100KHz	270.0m Ω	1.10A	1.00A
LQH5040NF-680M-□A	68.00 μ H $\pm 20\%$	100KHz	400.0m Ω	0.90A	0.80A
LQH5040NF-101M-□A	100.00 μ H $\pm 20\%$	100KHz	560.0m Ω	0.75A	0.72A

- Saturation Current for Inductance becomes 30% lower than its initial value
- Temperature Rise Current for a 40°C rise above 25°C ambient

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Part Number	Inductance	Test Frequency	DC Resistance (RDC) $\pm 20\%$	Saturation Current (I_{SAT})	Temperature Rise Current (I_{RMS})
LQH6020NF Series					
LQH6020NF-1R0M-□A	1.00 μ H $\pm 20\%$	100KHz	19.0m Ω	6.20A	4.50A
LQH6020NF-1R5M-□A	1.50 μ H $\pm 20\%$	100KHz	22.5m Ω	5.50A	3.80A
LQH6020NF-2R0M-□A	2.00 μ H $\pm 20\%$	100KHz	25.0m Ω	5.30A	3.65A
LQH6020NF-2R2M-□A	2.20 μ H $\pm 20\%$	100KHz	29.0m Ω	5.00A	3.50A
LQH6020NF-3R3M-□A	3.30 μ H $\pm 20\%$	100KHz	35.0m Ω	4.00A	3.30A
LQH6020NF-4R7M-□A	4.70 μ H $\pm 20\%$	100KHz	54.0m Ω	3.00A	2.80A
LQH6020NF-5R6M-□A	5.60 μ H $\pm 20\%$	100KHz	59.0m Ω	2.70A	2.60A
LQH6020NF-6R8M-□A	6.80 μ H $\pm 20\%$	100KHz	78.0m Ω	2.60A	2.50A
LQH6020NF-8R2M-□A	8.20 μ H $\pm 20\%$	100KHz	103.0m Ω	2.40A	2.30A
LQH6020NF-100M-□A	10.00 μ H $\pm 20\%$	100KHz	106.0m Ω	2.10A	2.10A
LQH6020NF-150M-□A	15.00 μ H $\pm 20\%$	100KHz	138.0m Ω	1.50A	1.60A
LQH6020NF-220M-□A	22.00 μ H $\pm 20\%$	100KHz	204.0m Ω	1.30A	1.40A

- Saturation Current for Inductance becomes 30% lower than its initial value
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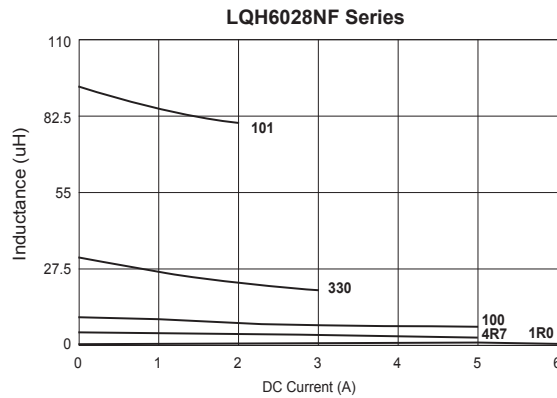
LQH Series

Electrical Characteristics

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Part Number	Inductance	Test Frequency	DC Resistance (RDC) $\pm 20\%$	Saturation Current (I_{SAT})	Temperature Rise Current (I_{RMS})
LQH6028NF Series					
LQH6028NF-1R0N-□A	1.00 μ H $\pm 30\%$	100KHz	10.0m Ω	5.75A	5.20A
LQH6028NF-1R5N-□A	1.50 μ H $\pm 30\%$	100KHz	14.0m Ω	5.30A	4.95A
LQH6028NF-2R2M-□A	2.20 μ H $\pm 20\%$	100KHz	18.0m Ω	5.00A	4.50A
LQH6028NF-3R3M-□A	3.30 μ H $\pm 20\%$	100KHz	24.0m Ω	4.30A	3.60A
LQH6028NF-4R7M-□A	4.70 μ H $\pm 20\%$	100KHz	30.0m Ω	3.20A	3.10A
LQH6028NF-6R8M-□A	6.80 μ H $\pm 20\%$	100KHz	47.0m Ω	2.85A	2.50A
LQH6028NF-100M-□A	10.00 μ H $\pm 20\%$	100KHz	65.0m Ω	2.10A	2.00A
LQH6028NF-150M-□A	15.00 μ H $\pm 20\%$	100KHz	98.0m Ω	2.00A	1.80A
LQH6028NF-220M-□A	22.00 μ H $\pm 20\%$	100KHz	138.0m Ω	1.60A	1.50A
LQH6028NF-330M-□A	33.00 μ H $\pm 20\%$	100KHz	200.0m Ω	1.40A	1.30A
LQH6028NF-470M-□A	47.00 μ H $\pm 20\%$	100KHz	280.0m Ω	1.15A	1.06A
LQH6028NF-680M-□A	68.00 μ H $\pm 20\%$	100KHz	420.0m Ω	1.00A	0.81A
LQH6028NF-101M-□A	100.00 μ H $\pm 20\%$	100KHz	605.0m Ω	0.80A	0.72A

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- Temperature Rise Current for a 40°C rise above 25°C ambient



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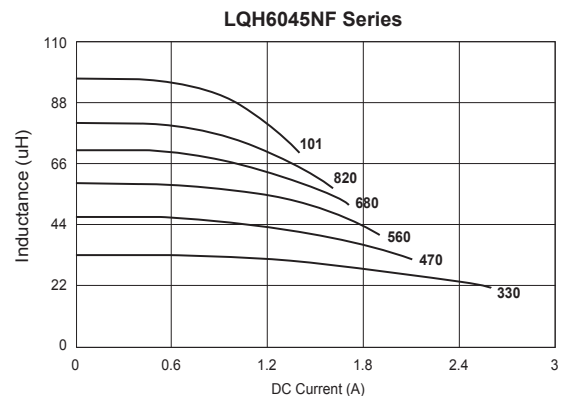
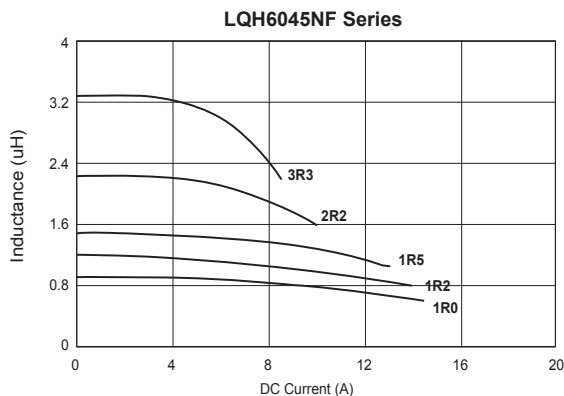
LQH Series

Electrical Characteristics

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Part Number	Inductance	Test Frequency	DC Resistance (RDC) $\pm 20\%$	Saturation Current (I_{SAT}) Typ. / Max.	Temperature Rise Current (I_{RMS}) Typ. / Max.
LQH6045NF Series					
LQH6045NF-1R0N-□A	1.00 μ H $\pm 30\%$	1MHz	10.0m Ω	13.50A / 12.50A	8.00A / 7.30A
LQH6045NF-1R2N-□A	1.20 μ H $\pm 30\%$	1MHz	10.5m Ω	12.50A / 11.50A	7.50A / 7.00A
LQH6045NF-1R5N-□A	1.50 μ H $\pm 30\%$	1MHz	11.7m Ω	12.00A / 11.00A	7.00A / 6.60A
LQH6045NF-2R2N-□A	2.20 μ H $\pm 30\%$	1MHz	15.0m Ω	9.50A / 8.55A	6.00A / 5.30A
LQH6045NF-3R3N-□A	3.30 μ H $\pm 30\%$	1MHz	21.0m Ω	7.80A / 7.30A	5.00A / 4.50A
LQH6045NF-4R7M-□A	4.70 μ H $\pm 20\%$	1MHz	26.0m Ω	6.80A / 6.20A	4.50A / 4.00A
LQH6045NF-6R3M-□A	6.30 μ H $\pm 20\%$	1MHz	33.0m Ω	5.90A / 5.30A	3.80A / 3.50A
LQH6045NF-6R8M-□A	6.80 μ H $\pm 20\%$	1MHz	34.0m Ω	5.70A / 5.15A	3.60A / 3.30A
LQH6045NF-100M-□A	10.00 μ H $\pm 20\%$	1MHz	52.0m Ω	4.60A / 4.20A	3.20A / 2.60A
LQH6045NF-150M-□A	15.00 μ H $\pm 20\%$	1MHz	71.0m Ω	3.80A / 3.30A	2.80A / 2.20A
LQH6045NF-220M-□A	22.00 μ H $\pm 20\%$	1MHz	96.0m Ω	3.30A / 2.70A	2.30A / 1.90A
LQH6045NF-330M-□A	33.00 μ H $\pm 20\%$	1MHz	145m Ω	2.50A / 2.10A	1.80A / 1.50A
LQH6045NF-470M-□A	47.00 μ H $\pm 20\%$	1MHz	200m Ω	2.00A / 1.75A	1.60A / 1.20A
LQH6045NF-560M-□A	56.00 μ H $\pm 20\%$	1MHz	230m Ω	1.80A / 1.65A	1.40A / 1.00A
LQH6045NF-680M-□A	68.00 μ H $\pm 20\%$	1MHz	305m Ω	1.60A / 1.52A	1.10A / 0.92A
LQH6045NF-820M-□A	82.00 μ H $\pm 20\%$	1MHz	365m Ω	1.50A / 1.40A	0.98A / 0.88A
LQH6045NF-101M-□A	100.00 μ H $\pm 20\%$	1MHz	456m Ω	1.33A / 1.25A	0.92A / 0.82A
LQH6045NF-121M-□A	120.00 μ H $\pm 20\%$	1MHz	500m Ω	1.20A / 1.10A	0.85A / 0.79A
LQH6045NF-151M-□A	150.00 μ H $\pm 20\%$	1MHz	626m Ω	1.10A / 1.00A	0.75A / 0.70A
LQH6045NF-181M-□A	180.00 μ H $\pm 20\%$	1MHz	745m Ω	1.00A / 0.90A	0.68A / 0.60A
LQH6045NF-221M-□A	220.00 μ H $\pm 20\%$	1MHz	900m Ω	0.88A / 0.77A	0.60A / 0.50A

- Saturation Current for Inductance becomes 30% lower than its initial value
- Temperature Rise Current for a 40°C rise above 25°C ambient



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SMD Sealed Power Inductor

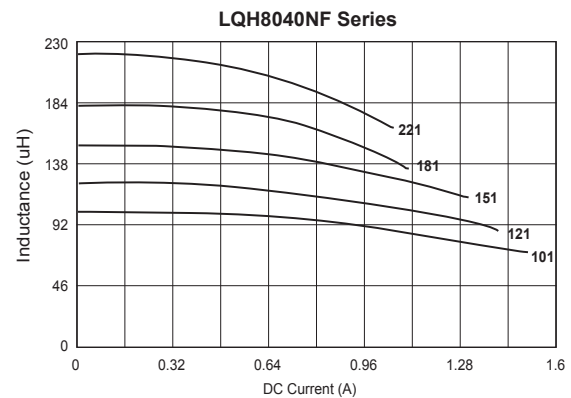
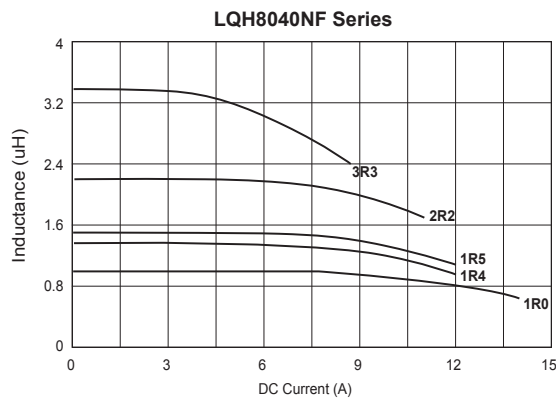
LQH Series

Electrical Characteristics

AEC
Q200

Part Number	Inductance	Test Frequency	DC Resistance (RDC) $\pm 20\%$	Saturation Current (I_{SAT}) Typ. / Max.	Temperature Rise Current (I_{RMS}) Typ. / Max.
LQH8040NF Series					
LQH8040NF-1R0N-□A	1.00 μ H $\pm 30\%$	1MHz	8.2m Ω	13.80A / 13.00A	8.50A / 8.00A
LQH8040NF-1R4N-□A	1.40 μ H $\pm 30\%$	1MHz	10.0m Ω	11.80A / 11.20A	8.20A / 7.80A
LQH8040NF-1R5N-□A	1.50 μ H $\pm 30\%$	1MHz	10.0m Ω	11.50A / 11.00A	8.00A / 7.70A
LQH8040NF-2R2N-□A	2.20 μ H $\pm 30\%$	1MHz	11.5m Ω	9.80A / 9.20A	7.40A / 6.90A
LQH8040NF-3R3N-□A	3.30 μ H $\pm 30\%$	1MHz	15.0m Ω	8.00A / 7.50A	6.60A / 6.20A
LQH8040NF-4R7M-□A	4.70 μ H $\pm 20\%$	1MHz	19.5m Ω	6.70A / 6.00A	5.80A / 5.30A
LQH8040NF-5R6M-□A	5.60 μ H $\pm 20\%$	1MHz	22.0m Ω	6.20A / 5.80A	5.40A / 5.20A
LQH8040NF-6R8M-□A	6.80 μ H $\pm 20\%$	1MHz	25.0m Ω	5.60A / 5.10A	5.10A / 5.00A
LQH8040NF-100M-□A	10.00 μ H $\pm 20\%$	1MHz	33.0m Ω	5.00A / 4.30A	4.60A / 4.20A
LQH8040NF-150M-□A	15.00 μ H $\pm 20\%$	1MHz	50.0m Ω	4.00A / 3.60A	3.60A / 3.20A
LQH8040NF-220M-□A	22.00 μ H $\pm 20\%$	1MHz	73.0m Ω	3.10A / 2.80A	2.90A / 2.45A
LQH8040NF-330M-□A	33.00 μ H $\pm 20\%$	1MHz	100m Ω	2.80A / 2.10A	2.30A / 2.10A
LQH8040NF-470M-□A	47.00 μ H $\pm 20\%$	1MHz	135m Ω	2.20A / 1.90A	2.00A / 1.70A
LQH8040NF-560M-□A	56.00 μ H $\pm 20\%$	1MHz	160m Ω	1.90A / 1.60A	1.75A / 1.60A
LQH8040NF-680M-□A	68.00 μ H $\pm 20\%$	1MHz	205m Ω	1.75A / 1.50A	1.65A / 1.50A
LQH8040NF-820M-□A	82.00 μ H $\pm 20\%$	1MHz	230m Ω	1.60A / 1.40A	1.40A / 1.30A
LQH8040NF-101M-□A	100.00 μ H $\pm 20\%$	1MHz	300m Ω	1.45A / 1.20A	1.20A / 1.10A
LQH8040NF-121M-□A	120.00 μ H $\pm 20\%$	1MHz	350m Ω	1.30A / 1.10A	1.10A / 1.00A
LQH8040NF-151M-□A	150.00 μ H $\pm 20\%$	1MHz	410m Ω	1.20A / 1.03A	0.98A / 0.90A
LQH8040NF-181M-□A	180.00 μ H $\pm 20\%$	1MHz	490m Ω	1.04A / 0.94A	0.91A / 0.83A
LQH8040NF-221M-□A	220.00 μ H $\pm 20\%$	1MHz	610m Ω	0.99A / 0.90A	0.85A / 0.76A

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