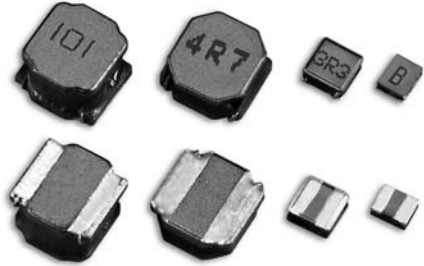




SMD Sealed Power Inductor

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

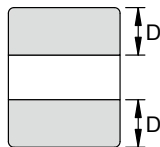
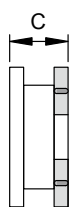
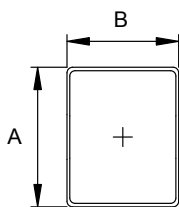
LQH **252010** **PE** - **1R0** **N** -

1 2 3 4 5 6

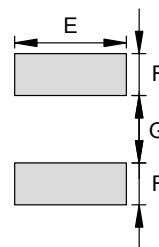
- 1 Product Group
- 2 Dimension Code
- 3 Type Code
- 4 Inductance Code: R means decimal point
Ex: 1R0→1.0μH
- 5 Inductance Tolerance
M=±20%, N=±30%
- 6 Control Code

Shapes and Dimension

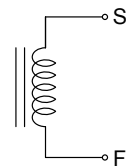
LQH252010 / LQH252012



Recommended Land Pattern



Circuit Diagram



Unit: mm

Type	A	B	C	D	E	F	G
LQH252010	2.5±0.1	2.0±0.1	1.0 (Max.)	0.85 (Ref.)	2.20	0.95	0.80
LQH252012	2.5±0.1	2.0±0.1	1.2 (Max.)	0.85 (Ref.)	2.20	0.95	0.80

• The specifications are subject to change or our products in it may be discontinued without advance notice. Please check with our sales representatives or product engineers before ordering.
 • The catalog has only typical specifications because there is no space for detailed specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

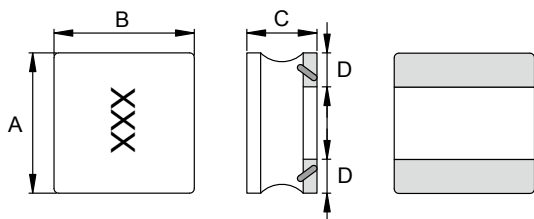


SMD Sealed Power Inductor

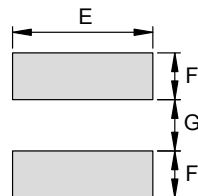
LQH Series

Shapes and Dimension

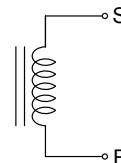
LQH3010 / LQH3012 / LQH 3015 / LQH4012



Recommended
Land Pattern



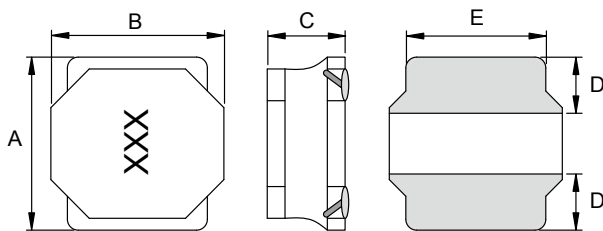
Circuit
Diagram



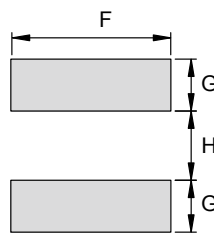
Unit: mm

Type	A	B	C	D	E	F	G
LQH3010	3.0±0.2	3.0±0.2	1.0 (Max.)	0.9 (Typ.)	3.00	1.00	1.20
LQH3012	3.0±0.2	3.0±0.2	1.2 (Max.)	0.9 (Typ.)	3.00	1.00	1.20
LQH3015	3.0±0.2	3.0±0.2	1.5 (Max.)	0.9 (Typ.)	3.00	1.00	1.20
LQH4012	4.0±0.2	4.0±0.2	1.2 (Max.)	1.2 (Typ.)	4.00	1.30	1.60

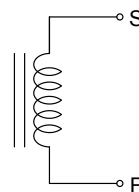
LQH4018 / LQH6012 / LQH 6028



Recommended
Land Pattern



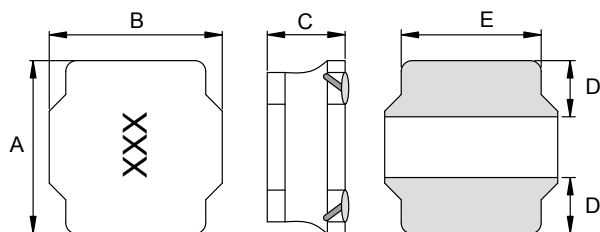
Circuit
Diagram



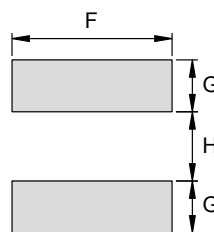
Unit: mm

Type	A	B	C	D	E	F	G	H
LQH4018	4.0±0.2	4.0±0.2	1.8±0.2	1.3±0.3	3.6 (Typ.)	3.70	1.20	1.60
LQH6012	6.0±0.2	6.0±0.2	1.2 (Max.)	1.65 (Typ.)	-	5.70	1.60	3.10
LQH6028	6.0±0.2	6.0±0.2	2.8±0.3	1.9±0.3	4.8 (Typ.)	5.70	1.60	3.10

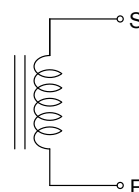
LQH5040 / LQH6020 / LQH6045 / LQH8040



Recommended
Land Pattern



Circuit
Diagram



Unit: mm

Type	A	B	C	D	E	F	G	H
LQH5040	5.0±0.2	5.0±0.2	4.0±0.3	1.6±0.3	4.0 (Typ.)	4.00	1.50	2.10
LQH6020	6.0±0.2	6.0±0.2	2.0±0.3	1.7±0.3	5.0 (Typ.)	5.70	1.60	3.10
LQH6045	6.0±0.2	6.0±0.2	4.5±0.3	1.8±0.3	-	5.70	1.60	3.10
LQH8040	8.0±0.2	8.0±0.2	4.0±0.2	2.3±0.3	6.3 (Typ.)	7.50	2.10	3.80

General Technical Data

Operating Temperature Range	-40°C ~ +85°C
Storage Temperature	40°C Max. , 70%RHMax.

- The specifications are subject to change or our products in it may be discontinued without advance notice. Please check with our sales representatives or product engineers before ordering.
- The catalog has only typical specifications because there is no space for detailed specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.



SMD Sealed Power Inductor

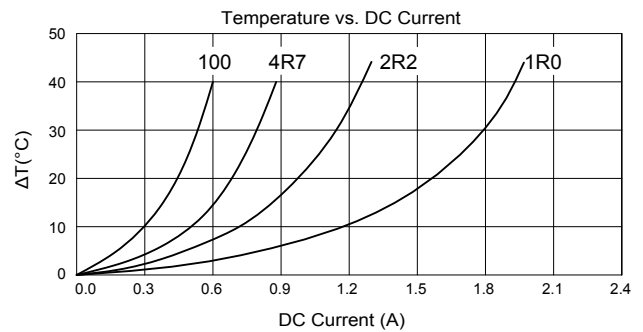
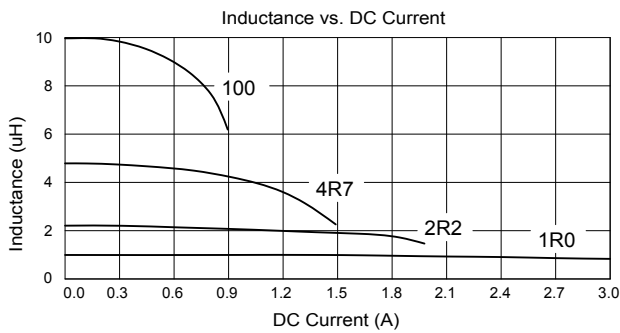
LQH Series

Electrical Characteristics

Part Number	Inductance	Test Frequency	DC Resistance	Saturation Current	Temperature Rise Current
LQH252010PE Series					
LQH252010PE-1R0N-□	1.0 $\mu\text{H} \pm 30\%$	1MHz	0.070 ohm $\pm 20\%$	2.70 A	1.90 A
LQH252010PE-1R5N-□	1.5 $\mu\text{H} \pm 30\%$	1MHz	0.107 ohm $\pm 20\%$	2.10 A	1.50 A
LQH252010PE-2R2M-□	2.2 $\mu\text{H} \pm 20\%$	1MHz	0.158 ohm $\pm 20\%$	1.70 A	1.20 A
LQH252010PE-3R3M-□	3.3 $\mu\text{H} \pm 20\%$	1MHz	0.229 ohm $\pm 20\%$	1.50 A	1.00 A
LQH252010PE-4R7M-□	4.7 $\mu\text{H} \pm 20\%$	1MHz	0.332 ohm $\pm 20\%$	1.10 A	0.82 A
LQH252010PE-6R8M-□	6.8 $\mu\text{H} \pm 20\%$	1MHz	0.443 ohm $\pm 20\%$	0.90 A	0.71 A
LQH252010PE-100M-□	10.0 $\mu\text{H} \pm 20\%$	1MHz	0.712 ohm $\pm 20\%$	0.80 A	0.55 A

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

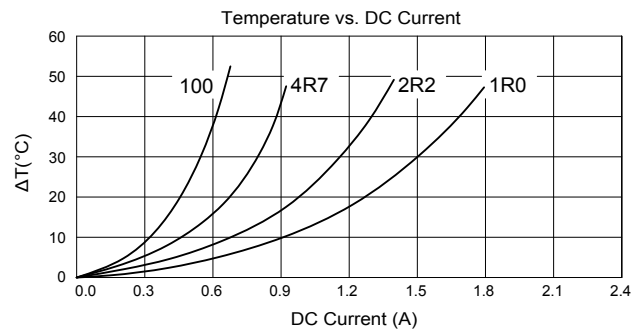
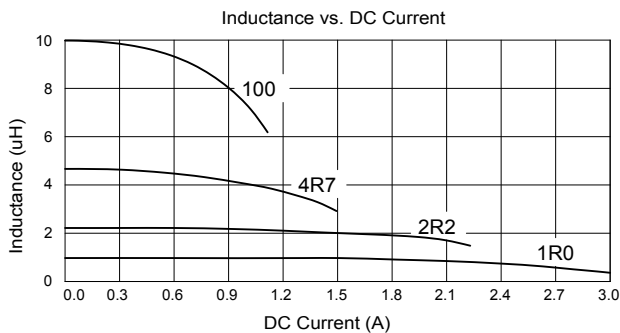
LQH252010PE Series



Part Number	Inductance	Test Frequency	DC Resistance	Saturation Current	Temperature Rise Current
LQH252012PE Series					
LQH252012PE-1R0N-□	1.0 $\mu\text{H} \pm 30\%$	1MHz	0.073 ohm $\pm 20\%$	3.00 A	1.70 A
LQH252012PE-1R5N-□	1.5 $\mu\text{H} \pm 30\%$	1MHz	0.105 ohm $\pm 20\%$	2.60 A	1.45 A
LQH252012PE-2R2M-□	2.2 $\mu\text{H} \pm 20\%$	1MHz	0.129 ohm $\pm 20\%$	2.00 A	1.30 A
LQH252012PE-3R3M-□	3.3 $\mu\text{H} \pm 20\%$	1MHz	0.198 ohm $\pm 20\%$	1.60 A	1.00 A
LQH252012PE-4R7M-□	4.7 $\mu\text{H} \pm 20\%$	1MHz	0.268 ohm $\pm 20\%$	1.40 A	0.85 A
LQH252012PE-6R8M-□	6.8 $\mu\text{H} \pm 20\%$	1MHz	0.430 ohm $\pm 20\%$	1.10 A	0.70 A
LQH252012PE-100M-□	10.0 $\mu\text{H} \pm 20\%$	1MHz	0.571 ohm $\pm 20\%$	1.00 A	0.60 A

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

LQH252012PE Series





SMD Sealed Power Inductor

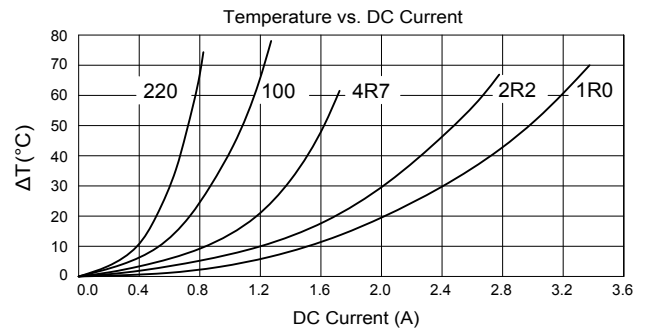
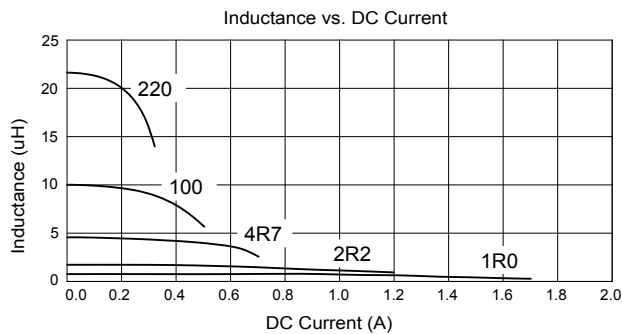
LQH Series

Electrical Characteristics

Part Number	Inductance	Test Frequency	DC Resistance	Saturation Current	Temperature Rise Current
LQH3010PE Series					
LQH3010PE-1R5N-□	1.5 $\mu\text{H} \pm 30\%$	1MHz	0.080 ohm $\pm 20\%$	1.20 A	1.30 A
LQH3010PE-2R2M-□	2.2 $\mu\text{H} \pm 20\%$	1MHz	0.095 ohm $\pm 20\%$	1.10 A	1.10 A
LQH3010PE-3R3M-□	3.3 $\mu\text{H} \pm 20\%$	1MHz	0.140 ohm $\pm 20\%$	0.87 A	0.94 A
LQH3010PE-4R7M-□	4.7 $\mu\text{H} \pm 20\%$	1MHz	0.190 ohm $\pm 20\%$	0.75 A	0.78 A
LQH3010PE-6R8M-□	6.8 $\mu\text{H} \pm 20\%$	1MHz	0.300 ohm $\pm 20\%$	0.61 A	0.63 A
LQH3010PE-100M-□	10.0 $\mu\text{H} \pm 20\%$	1MHz	0.450 ohm $\pm 20\%$	0.50 A	0.51 A
LQH3010PE-150M-□	15.0 $\mu\text{H} \pm 20\%$	1MHz	0.600 ohm $\pm 20\%$	0.40 A	0.40 A
LQH3010PE-220M-□	22.0 $\mu\text{H} \pm 20\%$	1MHz	0.920 ohm $\pm 20\%$	0.35 A	0.35 A

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

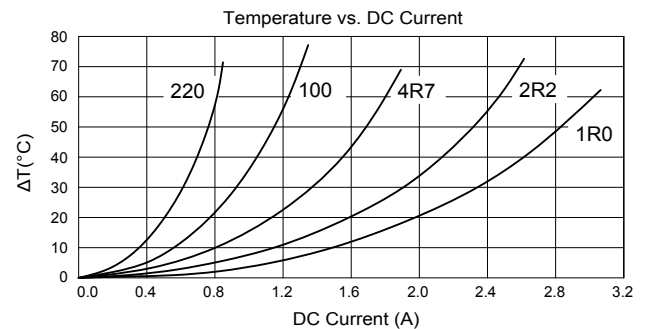
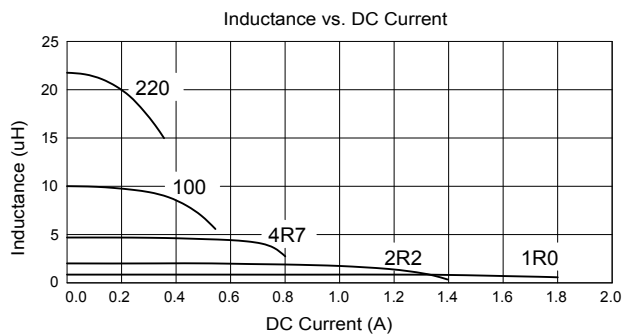
LQH3010PE Series



Part Number	Inductance	Test Frequency	DC Resistance	Saturation Current	Temperature Rise Current
LQH3012PE Series					
LQH3012PE-1R0N-□	1.0 $\mu\text{H} \pm 30\%$	1MHz	0.068 ohm $\pm 20\%$	1.70 A	2.00 A
LQH3012PE-2R2M-□	2.2 $\mu\text{H} \pm 20\%$	1MHz	0.096 ohm $\pm 20\%$	1.30 A	1.70 A
LQH3012PE-3R3M-□	3.3 $\mu\text{H} \pm 20\%$	1MHz	0.120 ohm $\pm 20\%$	1.00 A	1.55 A
LQH3012PE-4R7M-□	4.7 $\mu\text{H} \pm 20\%$	1MHz	0.180 ohm $\pm 20\%$	0.90 A	1.30 A
LQH3012PE-6R8M-□	6.8 $\mu\text{H} \pm 20\%$	1MHz	0.252 ohm $\pm 20\%$	0.70 A	1.10 A
LQH3012PE-100M-□	10.0 $\mu\text{H} \pm 20\%$	1MHz	0.348 ohm $\pm 20\%$	0.64 A	0.85 A

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

LQH3012PE Series





SMD Sealed Power Inductor

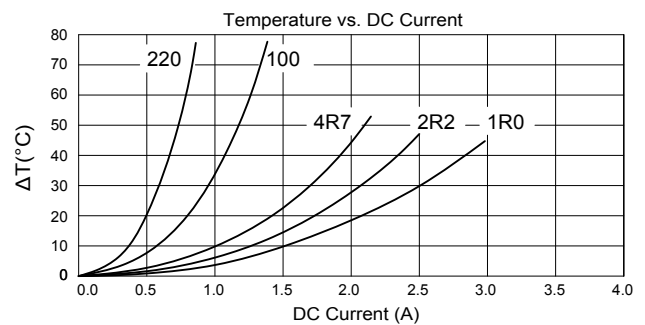
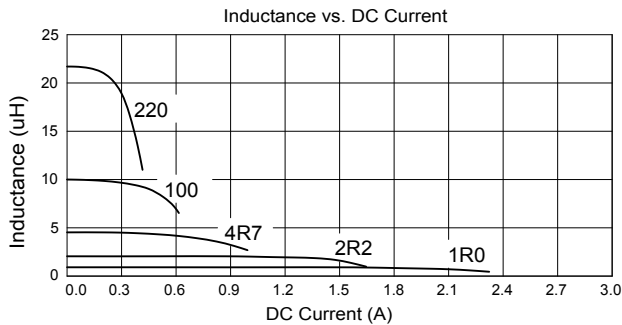
LQH Series

Electrical Characteristics

Part Number	Inductance	Test Frequency	DC Resistance	Saturation Current	Temperature Rise Current
LQH3015PE Series					
LQH3015PE-1R0N-□	1.0 $\mu\text{H} \pm 30\%$	1MHz	0.030 ohm $\pm 20\%$	2.10 A	2.10 A
LQH3015PE-1R5N-□	1.5 $\mu\text{H} \pm 30\%$	1MHz	0.040 ohm $\pm 20\%$	1.80 A	1.82 A
LQH3015PE-2R2M-□	2.2 $\mu\text{H} \pm 20\%$	1MHz	0.060 ohm $\pm 20\%$	1.48 A	1.50 A
LQH3015PE-3R3M-□	3.3 $\mu\text{H} \pm 20\%$	1MHz	0.080 ohm $\pm 20\%$	1.21 A	1.23 A
LQH3015PE-4R7M-□	4.7 $\mu\text{H} \pm 20\%$	1MHz	0.120 ohm $\pm 20\%$	1.02 A	1.04 A
LQH3015PE-6R8M-□	6.8 $\mu\text{H} \pm 20\%$	1MHz	0.160 ohm $\pm 20\%$	0.87 A	0.88 A
LQH3015PE-100M-□	10.0 $\mu\text{H} \pm 20\%$	1MHz	0.230 ohm $\pm 20\%$	0.70 A	0.71 A
LQH3015PE-150M-□	15.0 $\mu\text{H} \pm 20\%$	1MHz	0.360 ohm $\pm 20\%$	0.56 A	0.56 A
LQH3015PE-220M-□	22.0 $\mu\text{H} \pm 20\%$	1MHz	0.520 ohm $\pm 20\%$	0.47 A	0.47 A
LQH3015PE-330M-□	33.0 $\mu\text{H} \pm 20\%$	1MHz	0.840 ohm $\pm 20\%$	0.39 A	0.37 A

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

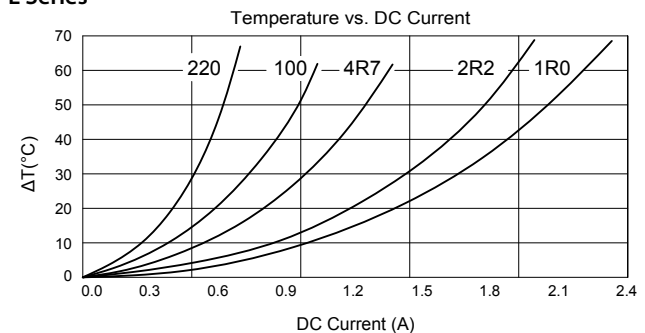
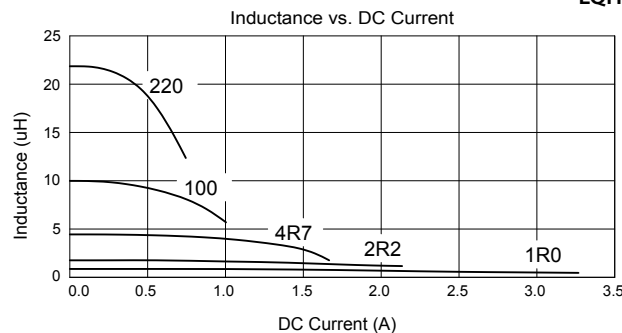
LQH3015PE Series



Part Number	Inductance	Test Frequency	DC Resistance	Saturation Current	Temperature Rise Current
LQH4012PE Series					
LQH4012PE-1R0N-□	1.0 $\mu\text{H} \pm 30\%$	1MHz	0.060 ohm $\pm 20\%$	2.50 A	1.50 A
LQH4012PE-1R5N-□	1.5 $\mu\text{H} \pm 30\%$	1MHz	0.075 ohm $\pm 20\%$	2.00 A	1.40 A
LQH4012PE-2R2N-□	2.2 $\mu\text{H} \pm 30\%$	1MHz	0.090 ohm $\pm 20\%$	1.65 A	1.20 A
LQH4012PE-3R3M-□	3.3 $\mu\text{H} \pm 20\%$	1MHz	0.130 ohm $\pm 20\%$	1.20 A	0.98 A
LQH4012PE-4R7M-□	4.7 $\mu\text{H} \pm 20\%$	1MHz	0.140 ohm $\pm 20\%$	1.05 A	0.96 A
LQH4012PE-6R8M-□	6.8 $\mu\text{H} \pm 20\%$	1MHz	0.180 ohm $\pm 20\%$	0.90 A	0.84 A
LQH4012PE-100M-□	10.0 $\mu\text{H} \pm 20\%$	1MHz	0.240 ohm $\pm 20\%$	0.74 A	0.77 A
LQH4012PE-150M-□	15.0 $\mu\text{H} \pm 20\%$	1MHz	0.400 ohm $\pm 20\%$	0.56 A	0.60 A
LQH4012PE-220M-□	22.0 $\mu\text{H} \pm 20\%$	1MHz	0.610 ohm $\pm 20\%$	0.51 A	0.54 A
LQH4012PE-330M-□	33.0 $\mu\text{H} \pm 20\%$	1MHz	0.810 ohm $\pm 20\%$	0.40 A	0.42 A

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

LQH4012PE Series



- The specifications are subject to change or our products in it may be discontinued without advance notice. Please check with our sales representatives or product engineers before ordering.
- The catalog has only typical specifications because there is no space for detailed specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.



SMD Sealed Power Inductor

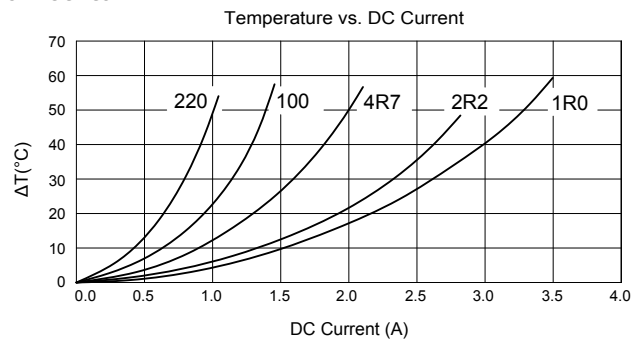
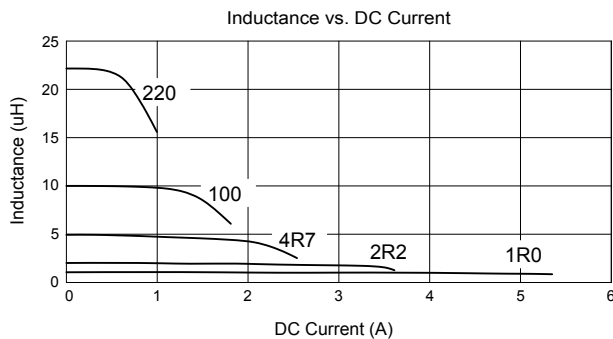
LQH Series

Electrical Characteristics

Part Number	Inductance	Test Frequency	DC Resistance	Saturation Current	Temperature Rise Current
LQH4018PE Series					
LQH4018PE-1R0N-□	1.0 $\mu\text{H} \pm 30\%$	100KHz	0.032 ohm $\pm 20\%$	4.10 A	2.80 A
LQH4018PE-1R5N-□	1.5 $\mu\text{H} \pm 30\%$	100KHz	0.040 ohm $\pm 20\%$	3.30 A	2.60 A
LQH4018PE-2R2M-□	2.2 $\mu\text{H} \pm 20\%$	100KHz	0.060 ohm $\pm 20\%$	2.80 A	2.50 A
LQH4018PE-2R3M-□	2.3 $\mu\text{H} \pm 20\%$	100KHz	0.060 ohm $\pm 20\%$	2.80 A	2.50 A
LQH4018PE-3R3M-□	3.3 $\mu\text{H} \pm 20\%$	100KHz	0.070 ohm $\pm 20\%$	2.20 A	2.10 A
LQH4018PE-4R7M-□	4.7 $\mu\text{H} \pm 20\%$	100KHz	0.090 ohm $\pm 20\%$	2.00 A	1.70 A
LQH4018PE-6R8M-□	6.8 $\mu\text{H} \pm 20\%$	100KHz	0.110 ohm $\pm 20\%$	1.60 A	1.50 A
LQH4018PE-100M-□	10.0 $\mu\text{H} \pm 20\%$	100KHz	0.170 ohm $\pm 20\%$	1.40 A	1.20 A
LQH4018PE-150M-□	15.0 $\mu\text{H} \pm 20\%$	100KHz	0.250 ohm $\pm 20\%$	1.00 A	1.00 A
LQH4018PE-220M-□	22.0 $\mu\text{H} \pm 20\%$	100KHz	0.350 ohm $\pm 20\%$	0.90 A	0.85 A
LQH4018PE-330M-□	33.0 $\mu\text{H} \pm 20\%$	100KHz	0.530 ohm $\pm 20\%$	0.80 A	0.70 A
LQH4018PE-470M-□	47.0 $\mu\text{H} \pm 20\%$	100KHz	0.720 ohm $\pm 20\%$	0.70 A	0.56 A
LQH4018PE-680M-□	68.0 $\mu\text{H} \pm 20\%$	100KHz	1.000 ohm $\pm 20\%$	0.56 A	0.45 A
LQH4018PE-101M-□	100.0 $\mu\text{H} \pm 20\%$	100KHz	1.500 ohm $\pm 20\%$	0.46 A	0.38 A
LQH4018PE-151M-□	150.0 $\mu\text{H} \pm 20\%$	100KHz	2.500 ohm $\pm 20\%$	0.35 A	0.30 A
LQH4018PE-221M-□	220.0 $\mu\text{H} \pm 20\%$	100KHz	4.000 ohm $\pm 20\%$	0.28 A	0.23 A

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

LQH4018PE Series





SMD Sealed Power Inductor

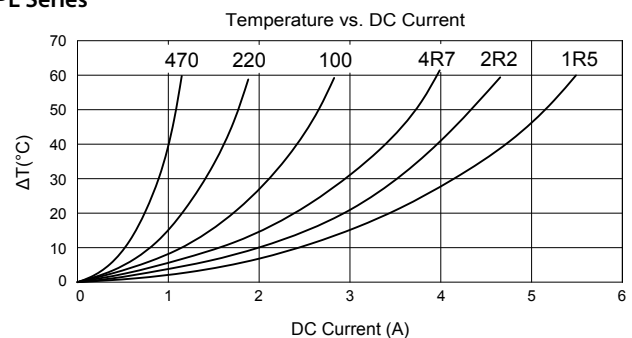
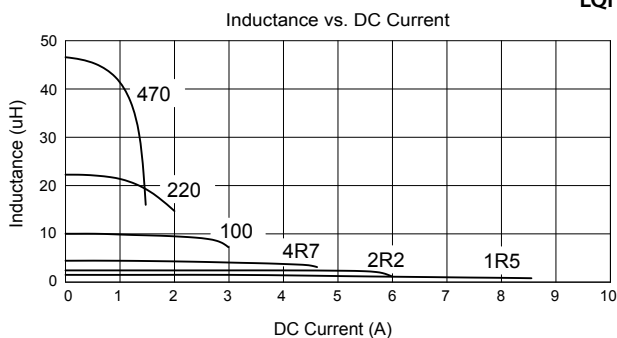
LQH Series

Electrical Characteristics

Part Number	Inductance	Test Frequency	DC Resistance	Saturation Current	Temperature Rise Current
LQH5040PE Series					
LQH5040PE-1R5N-□	1.5 $\mu\text{H} \pm 30\%$	100KHz	0.016 ohm $\pm 30\%$	7.10 A	4.40 A
LQH5040PE-2R2N-□	2.2 $\mu\text{H} \pm 30\%$	100KHz	0.021 ohm $\pm 30\%$	5.70 A	3.70 A
LQH5040PE-3R3N-□	3.3 $\mu\text{H} \pm 30\%$	100KHz	0.026 ohm $\pm 30\%$	4.80 A	3.50 A
LQH5040PE-4R7M-□	4.7 $\mu\text{H} \pm 20\%$	100KHz	0.032 ohm $\pm 30\%$	4.20 A	3.20 A
LQH5040PE-6R8M-□	6.8 $\mu\text{H} \pm 20\%$	100KHz	0.050 ohm $\pm 30\%$	3.30 A	2.40 A
LQH5040PE-100M-□	10.0 $\mu\text{H} \pm 20\%$	100KHz	0.060 ohm $\pm 30\%$	2.80 A	2.20 A
LQH5040PE-150M-□	15.0 $\mu\text{H} \pm 20\%$	100KHz	0.090 ohm $\pm 30\%$	2.30 A	1.80 A
LQH5040PE-220M-□	22.0 $\mu\text{H} \pm 20\%$	100KHz	0.135 ohm $\pm 30\%$	1.80 A	1.40 A
LQH5040PE-270M-□	27.0 $\mu\text{H} \pm 20\%$	100KHz	0.180 ohm $\pm 30\%$	1.60 A	1.20 A
LQH5040PE-330M-□	33.0 $\mu\text{H} \pm 20\%$	100KHz	0.190 ohm $\pm 30\%$	1.50 A	1.10 A
LQH5040PE-470M-□	47.0 $\mu\text{H} \pm 20\%$	100KHz	0.310 ohm $\pm 30\%$	1.20 A	0.90 A

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

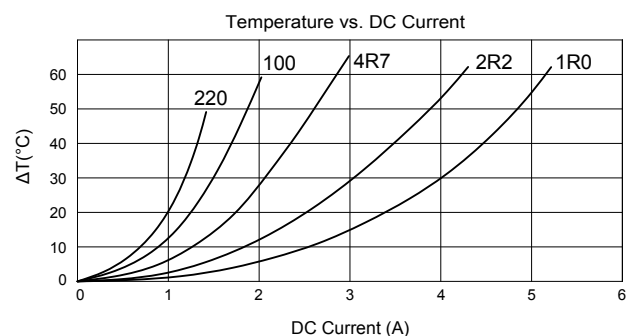
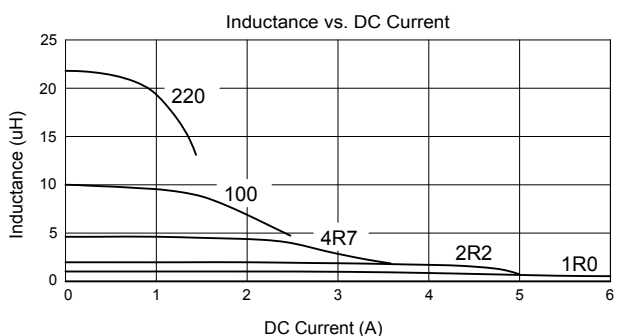
LQH5040PE Series



Part Number	Inductance	Test Frequency	DC Resistance	Saturation Current	Temperature Rise Current
LQH6020PE Series					
LQH6020PE-1R0N-□	1.0 $\mu\text{H} \pm 30\%$	100KHz	0.019 ohm $\pm 30\%$	6.20 A	4.10 A
LQH6020PE-2R2N-□	2.2 $\mu\text{H} \pm 30\%$	100KHz	0.034 ohm $\pm 30\%$	4.20 A	3.20 A
LQH6020PE-3R3N-□	3.3 $\mu\text{H} \pm 30\%$	100KHz	0.040 ohm $\pm 30\%$	3.20 A	2.70 A
LQH6020PE-4R7M-□	4.7 $\mu\text{H} \pm 20\%$	100KHz	0.058 ohm $\pm 30\%$	2.50 A	2.20 A
LQH6020PE-6R8M-□	6.8 $\mu\text{H} \pm 20\%$	100KHz	0.085 ohm $\pm 30\%$	2.20 A	1.80 A
LQH6020PE-100M-□	10.0 $\mu\text{H} \pm 20\%$	100KHz	0.125 ohm $\pm 30\%$	2.00 A	1.60 A
LQH6020PE-150M-□	15.0 $\mu\text{H} \pm 20\%$	100KHz	0.190 ohm $\pm 30\%$	1.30 A	1.30 A
LQH6020PE-220M-□	22.0 $\mu\text{H} \pm 20\%$	100KHz	0.260 ohm $\pm 30\%$	1.10 A	1.10 A

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

LQH6020PE Series



- The specifications are subject to change or our products in it may be discontinued without advance notice. Please check with our sales representatives or product engineers before ordering.
- The catalog has only typical specifications because there is no space for detailed specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.



SMD Sealed Power Inductor

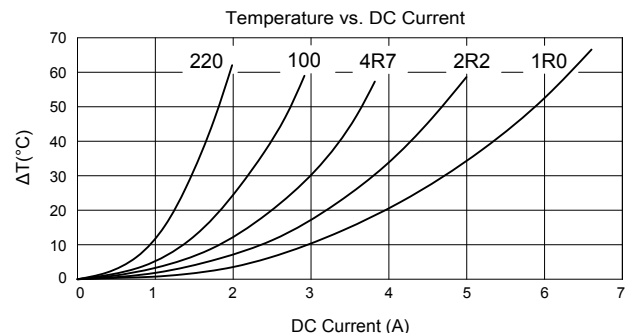
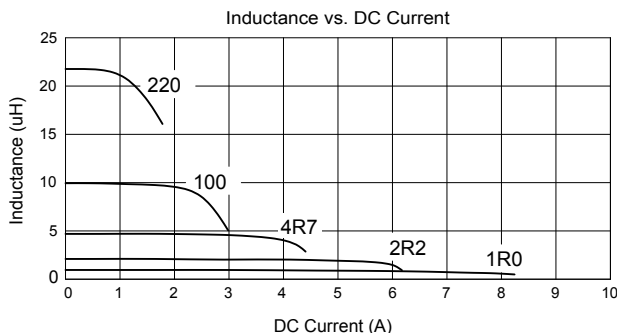
LQH Series

Electrical Characteristics

Part Number	Inductance	Test Frequency	DC Resistance	Saturation Current	Temperature Rise Current
LQH6028PE Series					
LQH6028PE-1R0N-□	1.0 $\mu\text{H} \pm 30\%$	100KHz	0.013 $\text{ohm} \pm 30\%$	7.60 A	5.20 A
LQH6028PE-1R5N-□	1.5 $\mu\text{H} \pm 30\%$	100KHz	0.016 $\text{ohm} \pm 30\%$	6.30 A	4.80 A
LQH6028PE-2R2N-□	2.2 $\mu\text{H} \pm 30\%$	100KHz	0.020 $\text{ohm} \pm 30\%$	5.40 A	4.00 A
LQH6028PE-3R3N-□	3.3 $\mu\text{H} \pm 30\%$	100KHz	0.028 $\text{ohm} \pm 30\%$	4.30 A	3.50 A
LQH6028PE-4R7N-□	4.7 $\mu\text{H} \pm 30\%$	100KHz	0.038 $\text{ohm} \pm 30\%$	3.70 A	3.20 A
LQH6028PE-6R8M-□	6.8 $\mu\text{H} \pm 20\%$	100KHz	0.050 $\text{ohm} \pm 30\%$	3.10 A	2.70 A
LQH6028PE-100M-□	10.0 $\mu\text{H} \pm 20\%$	100KHz	0.065 $\text{ohm} \pm 30\%$	2.50 A	2.30 A
LQH6028PE-150M-□	15.0 $\mu\text{H} \pm 20\%$	100KHz	0.095 $\text{ohm} \pm 30\%$	2.00 A	1.80 A
LQH6028PE-220M-□	22.0 $\mu\text{H} \pm 20\%$	100KHz	0.135 $\text{ohm} \pm 30\%$	1.60 A	1.50 A
LQH6028PE-330M-□	33.0 $\mu\text{H} \pm 20\%$	100KHz	0.220 $\text{ohm} \pm 30\%$	1.30 A	1.40 A
LQH6028PE-470M-□	47.0 $\mu\text{H} \pm 20\%$	100KHz	0.320 $\text{ohm} \pm 30\%$	1.10 A	1.00 A
LQH6028PE-680M-□	68.0 $\mu\text{H} \pm 20\%$	100KHz	0.420 $\text{ohm} \pm 30\%$	0.98 A	0.90 A
LQH6028PE-101M-□	100.0 $\mu\text{H} \pm 20\%$	100KHz	0.600 $\text{ohm} \pm 30\%$	0.82 A	0.80 A

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

LQH6028PE Series



Part Number	Inductance	Test Frequency	DC Resistance	Saturation Current	Temperature Rise Current
LQH6045PE Series					
LQH6045PE-1R0N-□	1.0 $\mu\text{H} \pm 30\%$	100KHz	0.0120 $\text{ohm} \pm 30\%$	12.20 A	6.50 A
LQH6045PE-1R5N-□	1.5 $\mu\text{H} \pm 30\%$	100KHz	0.0150 $\text{ohm} \pm 30\%$	10.40 A	5.90 A
LQH6045PE-2R2N-□	2.2 $\mu\text{H} \pm 30\%$	100KHz	0.0184 $\text{ohm} \pm 30\%$	8.80 A	5.10 A
LQH6045PE-3R3N-□	3.3 $\mu\text{H} \pm 30\%$	100KHz	0.0240 $\text{ohm} \pm 30\%$	7.50 A	4.30 A
LQH6045PE-4R7M-□	4.7 $\mu\text{H} \pm 20\%$	100KHz	0.0310 $\text{ohm} \pm 30\%$	6.70 A	3.90 A
LQH6045PE-6R8M-□	6.8 $\mu\text{H} \pm 20\%$	100KHz	0.0430 $\text{ohm} \pm 30\%$	5.30 A	3.20 A
LQH6045PE-100M-□	10.0 $\mu\text{H} \pm 20\%$	100KHz	0.0570 $\text{ohm} \pm 30\%$	4.50 A	2.70 A
LQH6045PE-150M-□	15.0 $\mu\text{H} \pm 20\%$	100KHz	0.0800 $\text{ohm} \pm 30\%$	3.40 A	2.20 A
LQH6045PE-220M-□	22.0 $\mu\text{H} \pm 20\%$	100KHz	0.1250 $\text{ohm} \pm 30\%$	3.00 A	1.90 A
LQH6045PE-330M-□	33.0 $\mu\text{H} \pm 20\%$	100KHz	0.1650 $\text{ohm} \pm 30\%$	2.30 A	1.40 A
LQH6045PE-470M-□	47.0 $\mu\text{H} \pm 20\%$	100KHz	0.2450 $\text{ohm} \pm 30\%$	1.90 A	1.20 A
LQH6045PE-680M-□	68.0 $\mu\text{H} \pm 20\%$	100KHz	0.3300 $\text{ohm} \pm 30\%$	1.60 A	1.00 A
LQH6045PE-101M-□	100.0 $\mu\text{H} \pm 20\%$	100KHz	0.5000 $\text{ohm} \pm 30\%$	1.30 A	0.80 A

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

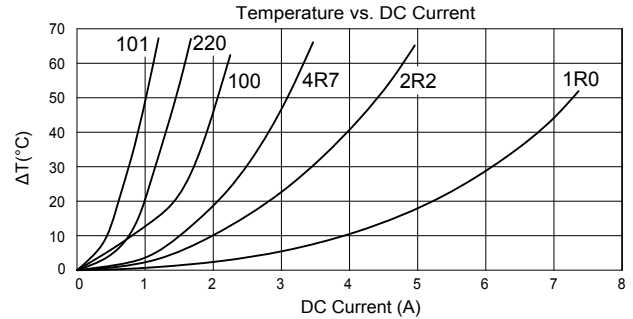
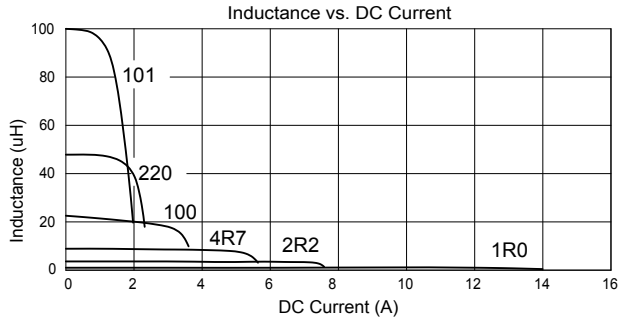


SMD Sealed Power Inductor

LQH Series

Electrical Characteristics

LQH6045PE Series



Part Number	Inductance	Test Frequency	DC Resistance	Saturation Current	Temperature Rise Current
LQH8040PE Series					
LQH8040PE-1R0N-□	1.0 $\mu\text{H} \pm 30\%$	100KHz	0.0075 ohm $\pm 30\%$	13.00 A	7.95 A
LQH8040PE-1R5N-□	1.5 $\mu\text{H} \pm 30\%$	100KHz	0.0095 ohm $\pm 30\%$	10.00 A	7.70 A
LQH8040PE-2R2N-□	2.2 $\mu\text{H} \pm 30\%$	100KHz	0.0115 ohm $\pm 30\%$	9.20 A	7.20 A
LQH8040PE-3R3M-□	3.3 $\mu\text{H} \pm 20\%$	100KHz	0.0150 ohm $\pm 30\%$	7.50 A	6.00 A
LQH8040PE-4R7M-□	4.7 $\mu\text{H} \pm 20\%$	100KHz	0.0180 ohm $\pm 30\%$	6.00 A	5.50 A
LQH8040PE-6R8M-□	6.8 $\mu\text{H} \pm 20\%$	100KHz	0.0250 ohm $\pm 30\%$	5.40 A	5.10 A
LQH8040PE-100M-□	10.0 $\mu\text{H} \pm 20\%$	100KHz	0.0380 ohm $\pm 30\%$	4.30 A	3.80 A
LQH8040PE-150M-□	15.0 $\mu\text{H} \pm 20\%$	100KHz	0.0500 ohm $\pm 30\%$	3.60 A	3.20 A
LQH8040PE-220M-□	22.0 $\mu\text{H} \pm 20\%$	100KHz	0.0800 ohm $\pm 30\%$	2.80 A	2.60 A
LQH8040PE-330M-□	33.0 $\mu\text{H} \pm 20\%$	100KHz	0.1100 ohm $\pm 30\%$	2.30 A	2.00 A
LQH8040PE-470M-□	47.0 $\mu\text{H} \pm 20\%$	100KHz	0.1600 ohm $\pm 30\%$	1.90 A	1.75 A
LQH8040PE-680M-□	68.0 $\mu\text{H} \pm 20\%$	100KHz	0.2400 ohm $\pm 30\%$	1.70 A	1.45 A
LQH8040PE-101M-□	100.0 $\mu\text{H} \pm 20\%$	100KHz	0.3400 ohm $\pm 30\%$	1.40 A	1.10 A

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

LQH8040PE Series

