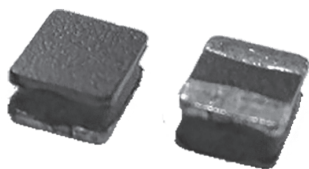




SMD Sealed Power Inductor

LQA 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

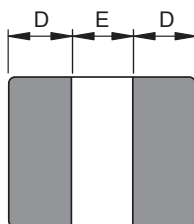
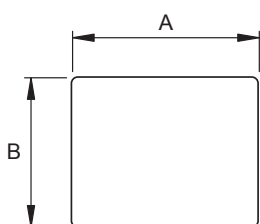
LQA 201610 H - R24 M - □

1 2 3 4 5 6

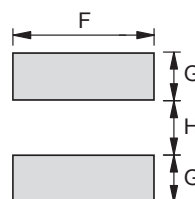
- 1 Product Group
- 2 Dimension Code
- 3 Type Code
- 4 Inductance Code: R means decimal point
Ex: R24→0.24μH
- 5 Inductance Tolerance M=±20%
- 6 Control Code

Shapes and Dimension

LQA201610 / LQA252010 / LQA252012



Recommended
Land Pattern



Unit: mm

Type	A	B	C	D	E	F	G	H
LQA201610	2.00±0.20	1.60±0.20	1.00 (Max.)	0.50 (Typ.)	1.00 (Typ.)	1.90	0.80	0.80
LQA252010	2.50±0.20	2.00±0.20	1.00 (Max.)	0.75 (Typ.)	1.00 (Typ.)	2.40	1.00	1.00
LQA252012	2.50±0.30	2.00±0.30	1.20 (Max.)	0.75 (Typ.)	1.00 (Typ.)	2.40	1.00	1.00

General Technical Data

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

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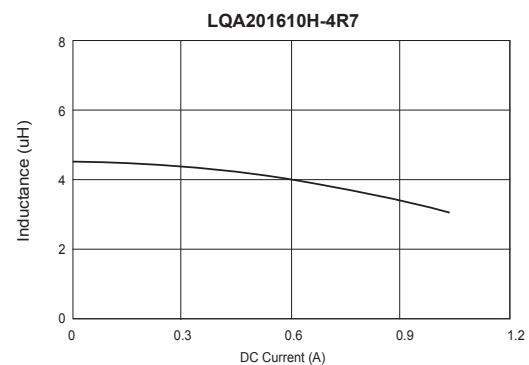
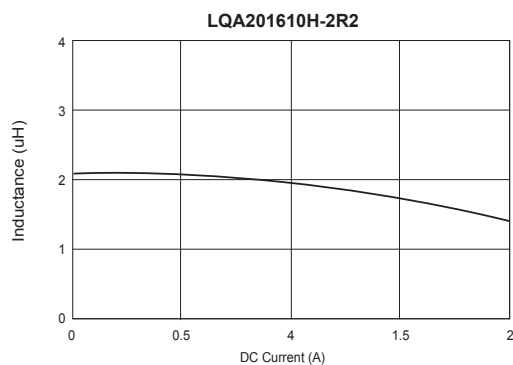
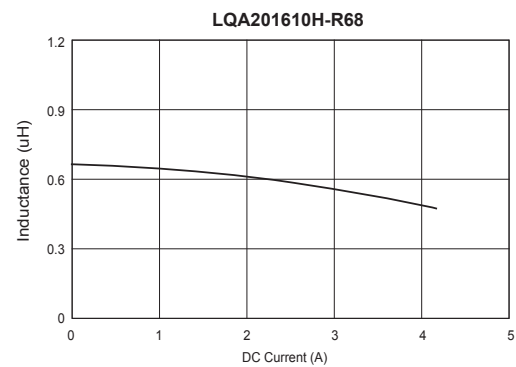
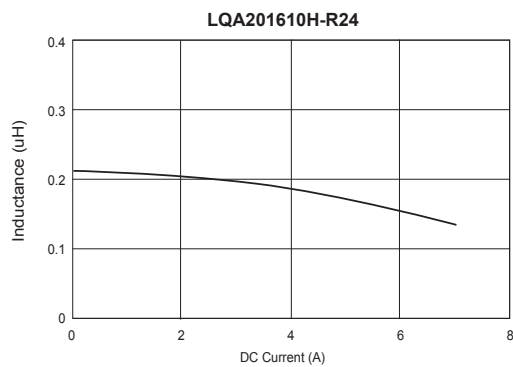
SMD Sealed Power Inductor

LQA Series

Electrical Characteristics

Part Number	Inductance	Test Frequency	DC Resistance (RDC) Max.	Saturation Current (I_{SAT}) Typ. / Max.	Temperature Rise Current (I_{RMS}) Typ. / Max.
LQA201610H Series					
LQA201610H-R24M-□	0.24 μ H $\pm$ 20%	1MHz	0.021 Ω	7.00A / 6.00A	5.90A / 5.30A
LQA201610H-R33M-□	0.33 μ H $\pm$ 20%	1MHz	0.029 Ω	5.50A / 5.00A	5.30A / 4.80A
LQA201610H-R47M-□	0.47 μ H $\pm$ 20%	1MHz	0.035 Ω	5.20A / 4.30A	4.80A / 4.40A
LQA201610H-R68M-□	0.68 μ H $\pm$ 20%	1MHz	0.050 Ω	4.30A / 3.70A	4.00A / 3.60A
LQA201610H-1R0M-□	1.00 μ H $\pm$ 20%	1MHz	0.065 Ω	3.60A / 3.00A	3.50A / 3.20A
LQA201610H-1R5M-□	1.50 μ H $\pm$ 20%	1MHz	0.120 Ω	2.60A / 2.30A	2.70A / 2.30A
LQA201610H-2R2M-□	2.20 μ H $\pm$ 20%	1MHz	0.130 Ω	2.10A / 1.90A	2.20A / 2.00A
LQA201610H-3R3M-□	3.30 μ H $\pm$ 20%	1MHz	0.216 Ω	1.50A / 1.30A	1.70A / 1.50A
LQA201610H-4R7M-□	4.70 μ H $\pm$ 20%	1MHz	0.230 Ω	1.10A / 1.00A	1.20A / 1.10A

- 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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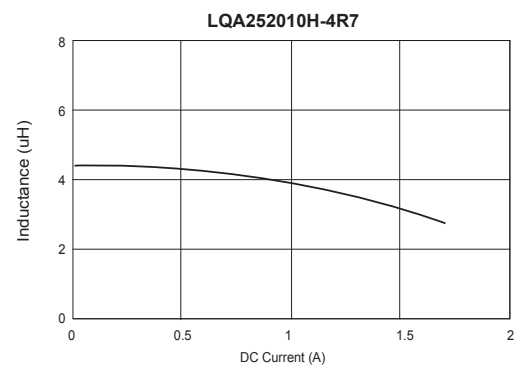
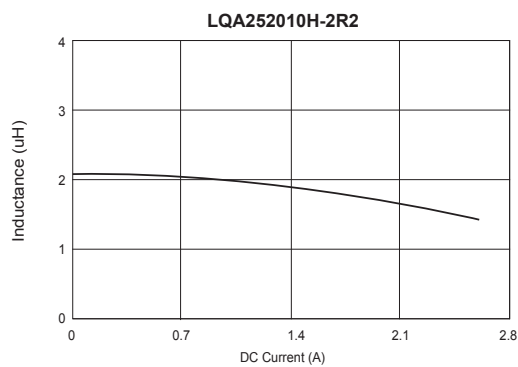
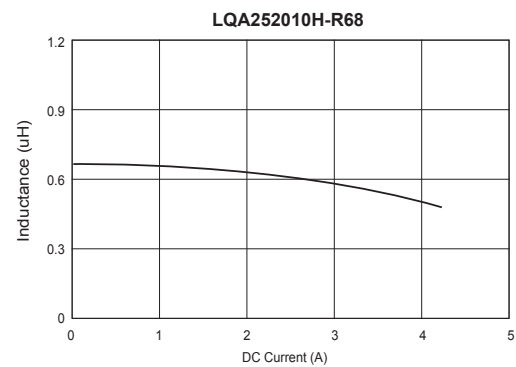
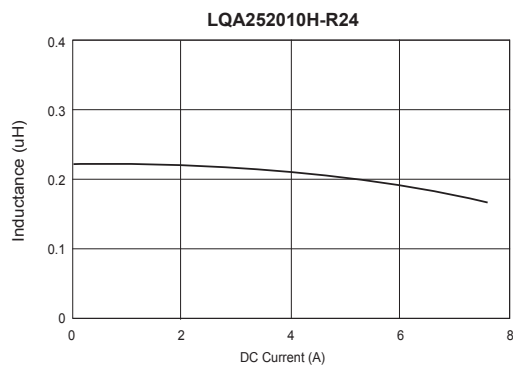
SMD Sealed Power Inductor

LQA Series

Electrical Characteristics

Part Number	Inductance	Test Frequency	DC Resistance (RDC) Max.	Saturation Current (I_{SAT}) Typ. / Max.	Temperature Rise Current (I_{RMS}) Typ. / Max.
LQA252010H Series					
LQA252010H-R24M-□	0.24 μ H $\pm$ 20%	1MHz	0.028 Ω	7.20A / 6.70A	6.00A / 5.50A
LQA252010H-R33M-□	0.33 μ H $\pm$ 20%	1MHz	0.029 Ω	6.00A / 5.50A	5.00A / 4.50A
LQA252010H-R47M-□	0.47 μ H $\pm$ 20%	1MHz	0.035 Ω	5.50A / 4.90A	4.70A / 4.20A
LQA252010H-R68M-□	0.68 μ H $\pm$ 20%	1MHz	0.043 Ω	4.40A / 3.80A	4.00A / 3.60A
LQA252010H-1R0M-□	1.00 μ H $\pm$ 20%	1MHz	0.053 Ω	3.60A / 3.10A	3.70A / 3.20A
LQA252010H-1R5M-□	1.50 μ H $\pm$ 20%	1MHz	0.086 Ω	3.20A / 2.70A	2.80A / 2.40A
LQA252010H-2R2M-□	2.20 μ H $\pm$ 20%	1MHz	0.108 Ω	2.50A / 2.10A	2.60A / 2.30A
LQA252010H-3R3M-□	3.30 μ H $\pm$ 20%	1MHz	0.230 Ω	2.00A / 1.70A	1.70A / 1.50A
LQA252010H-4R7M-□	4.70 μ H $\pm$ 20%	1MHz	0.264 Ω	1.70A / 1.40A	1.60A / 1.40A

- 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

LQA Series

Electrical Characteristics

Part Number	Inductance	Test Frequency	DC Resistance (RDC) Max.	Saturation Current (I_{SAT}) Typ. / Max.	Temperature Rise Current (I_{RMS}) Typ. / Max.
LQA252012H Series					
LQA252012H-R24M-□	0.24 μ H $\pm$ 20%	1MHz	0.015 Ω	7.80A / 6.50A	7.50A / 6.50A
LQA252012H-R33M-□	0.33 μ H $\pm$ 20%	1MHz	0.023 Ω	7.00A / 6.00A	6.30A / 5.20A
LQA252012H-R47M-□	0.47 μ H $\pm$ 20%	1MHz	0.027 Ω	6.50A / 5.50A	5.50A / 4.70A
LQA252012H-R68M-□	0.68 μ H $\pm$ 20%	1MHz	0.037 Ω	6.00A / 5.00A	5.00A / 4.20A
LQA252012H-1R0M-□	1.00 μ H $\pm$ 20%	1MHz	0.044 Ω	4.50A / 3.80A	4.50A / 4.00A
LQA252012H-1R5M-□	1.50 μ H $\pm$ 20%	1MHz	0.060 Ω	3.80A / 3.20A	4.00A / 3.50A
LQA252012H-2R2M-□	2.20 μ H $\pm$ 20%	1MHz	0.084 Ω	2.60A / 2.20A	3.00A / 2.50A
LQA252012H-3R3M-□	3.30 μ H $\pm$ 20%	1MHz	0.140 Ω	2.30A / 2.00A	2.20A / 2.00A
LQA252012H-4R7M-□	4.70 μ H $\pm$ 20%	1MHz	0.150 Ω	1.70A / 1.50A	1.90A / 1.70A

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

