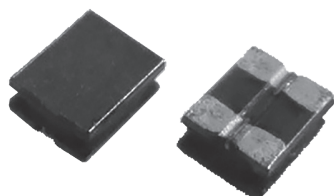




SMD Sealed Power Inductor

LQT 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

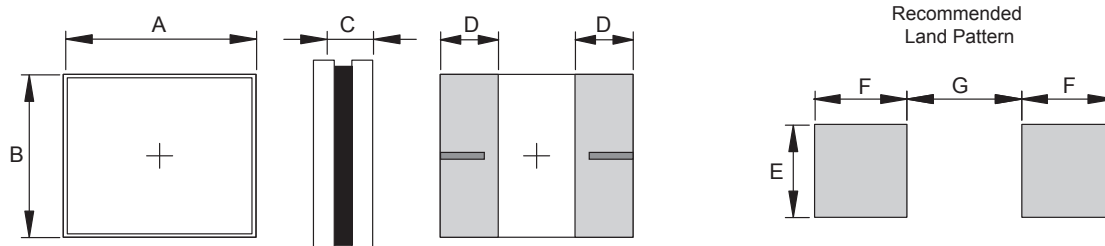
Part Numbering

LQT 252012 T - R47 M - N1

1 2 3 4 5 6

- 1 Product Group
- 2 Dimension Code
- 3 Type Code
- 4 Inductance Code: R means decimal point
Ex: R47→0.47μH
- 5 Inductance Tolerance M=±20%
- 6 Control Code

Shapes and Dimension



Unit: mm

Type	A	B	C	D	E	F	G
LQT252012	2.50±0.30	2.00±0.35	1.25 (Max.)	0.85 (Ref.)	2.20	0.95	0.80

General Technical Data

Operating Temperature Range	-40°C ~ +105°C
Storage Temperature	40°C Max. , 70%RHMax.

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SMD Sealed Power Inductor

LQT Series

Electrical Characteristics

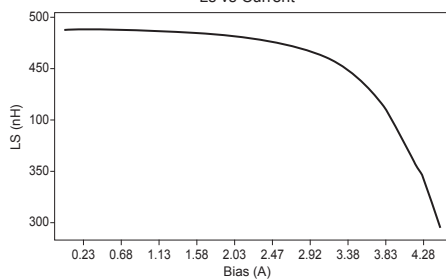
AEC
Q200

Part Number	Inductance	Test Frequency	DC Resistance (RDC) Max.	Saturation Current (I_{SAT}) Typ. / Max.	Temperature Rise Current (I_{RMS}) Typ. / Max.
LQT252012T Series					
LQT252012T-R47M-N1	0.47 μ H $\pm$ 20%	1MHz	0.035 Ω	4.40A / 4.20A	5.20A / 4.70A
LQT252012T-1R0M-N1	1.00 μ H $\pm$ 20%	1MHz	0.056 Ω	3.30A / 3.10A	4.00A / 3.53A
LQT252012T-2R2M-N1	2.20 μ H $\pm$ 20%	1MHz	0.100 Ω	2.40A / 2.30A	2.75A / 2.40A
LQT252012T-3R3M-N1	3.30 μ H $\pm$ 20%	1MHz	0.168 Ω	1.85A / 1.75A	2.10A / 1.82A
LQT252012T-4R7M-N1	4.70 μ H $\pm$ 20%	1MHz	0.240 Ω	1.70A / 1.60A	1.90A / 1.65A
LQT252012T-100M-N1	10.00 μ H $\pm$ 20%	1MHz	0.540 Ω	1.20A / 1.10A	1.30A / 1.00A
LQT252012T-150M-N1	15.00 μ H $\pm$ 20%	1MHz	0.600 Ω	0.90A / 0.80A	0.60A / 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

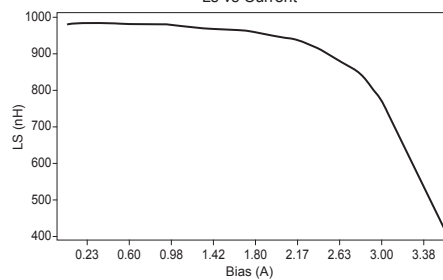
LQT252012T-R47

Ls vs Current



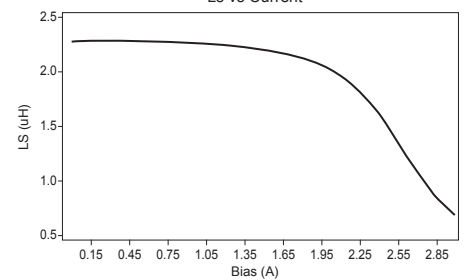
LQT252012T-1R0

Ls vs Current



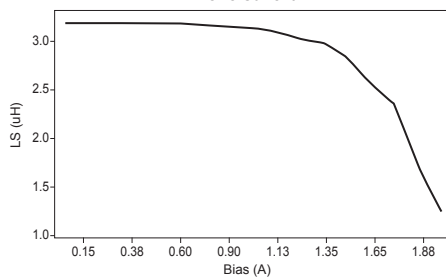
LQT252012T-2R2

Ls vs Current



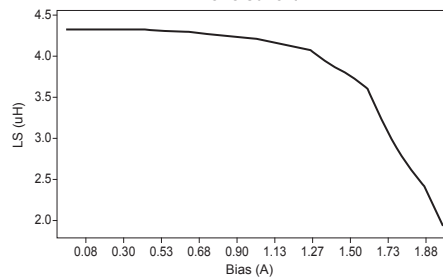
LQT252012T-3R3

Ls vs Current



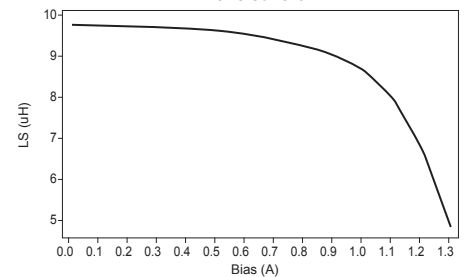
LQT252012T-4R7

Ls vs Current



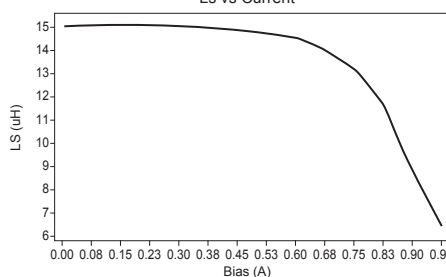
LQT252012T-100

Ls vs Current



LQT252012T-150

Ls vs Current



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