

HIGH CURRENT SURFACE MOUNT POWER INDUCTOR SERIES SH50

FEATURES

- Very high current performance
- Exceptionally low DC resistance
- Sturdy construction
- Excellent coplanarity. Good for flow and reflow soldering

ELECTRICAL SPECIFICATIONS

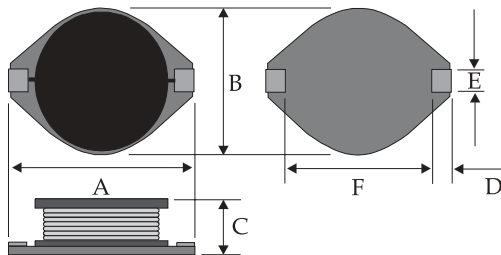
- Inductance range 1.0uH to 1000uH
- Test frequency 100KHz @ 0.1V test level
- Test equipment Quadtech 1750 LCR Meter
- Tolerance ± 20%
- Rated current Based on temperature rises
up to 40°C
- Saturation current Obtained when Lo drops 10% typical

PHYSICAL SPECIFICATIONS

- Operating temp. -40°C to +125°C
- Core Ferrite
- Base Plastic with UL-94V-0 rating
- Terminal Flat tinned copper
- Packaging Bulk 100 pieces per bag
T & R 350 pieces per reel
- Tape & reel spec. Tape 44 mm embossed carrier tape
Reel 330 mm plastic or paper

DIMENSIONS IN MILLIMETERS

- Length A 20.00 max.
- Diameter B 15.24 max.
- Height C 7.40 max.
- Terminal width D 2.54 nominal
- Terminal length E 2.54 nominal
- Lead spacing F 12.90 nominal



SPECIFICATIONS

Part Number	L (μH)	Tol % ±	DCR max (Ω)	Rated Current (A)	Saturation Current (A)
SH50-1R0M	1.0	20	.007	15.0	30
SH50-1R5M	1.5	20	.009	15.0	25
SH50-2R2M	2.2	20	.010	12.0	20
SH50-3R3M	3.3	20	.016	10.0	17
SH50-3R9M	3.9	20	.017	9.0	15
SH50-4R7M	4.7	20	.019	8.4	14
SH50-5R6M	5.6	20	.020	8.0	13
SH50-6R8M	6.8	20	.022	7.5	12
SH50-8R2M	8.2	20	.025	7.0	11
SH50-100M	10	20	.028	6.0	10
SH50-150M	15	20	.032	4.4	8.0
SH50-220M	22	20	.044	4.0	7.0
SH50-330M	33	20	.060	3.5	6.0
SH50-470M	47	20	.075	3.0	5.0
SH50-680M	68	20	.120	2.5	4.0
SH50-101M	100	20	.170	2.0	3.5
SH50-151M	150	20	.230	1.7	3.0
SH50-221M	220	20	.380	1.5	2.4
SH50-331M	330	20	.550	1.3	2.0
SH50-471M	470	20	.800	1.0	1.7
SH50-681M	680	20	1.00	0.8	1.5
SH50-102M	1000	20	1.65	0.7	1.1

SUGGESTED LAND PATTERN

A = 12.65 mm
B = 2.79 mm
C = 2.92 mm

