

New Product

SURFACE MOUNT SHIELDED POWER INDUCTOR SERIES SDC4430

FEATURES

- RoHS compliant
- Shielded
- Low profile
- Ideal for use in LCD drivers, notebook computers, digital cameras, TV, mobile devices and DC-DC converters

ELECTRICAL SPECIFICATIONS

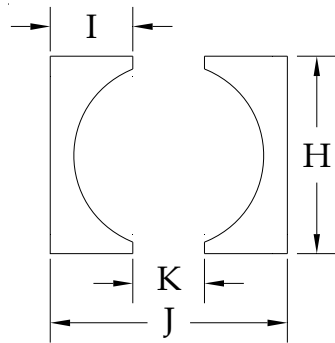
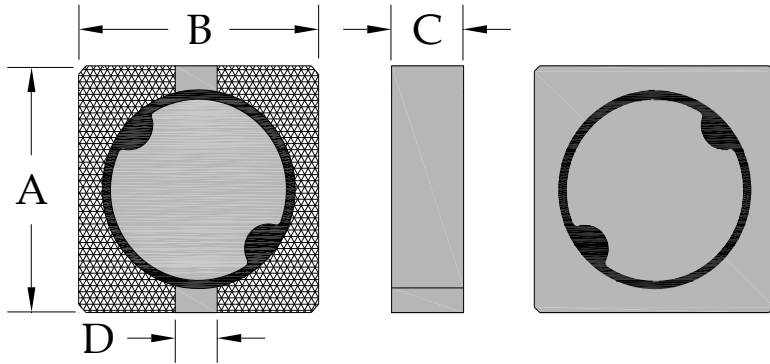
- Inductance range 1.5uH to 560uH
- Test condition (1.5uH - 8.2uH) 100kHz @ 0.25Vrms
- Test condition (10uH - 560uH) 1kHz @ 0.25Vrms
- Test equipment Quadtech 1750 LCR Meter

PHYSICAL SPECIFICATIONS

- Operating temp. -25°C to +105°C
- Core Ferrite
- Packaging T & R 2500 pieces per reel
- Tape & reel spec. Tape 12 mm embossed carrier
- Reel 330 mm

Dimensions in millimeters

- Length A 3.8 ± 0.3
- Width B 3.8 ± 0.3
- Height C 3.0 max
- Terminal pitch D 1.2 ref



Suggested PCB land pattern

- H = 4.4
- I = 1.6
- J = 4.4
- K = 1.2

SPECIFICATIONS

Part Number	L(uH)	Tol % $\pm$	DCR (ohms) max	Rated Current (A) (Note 1)
SDC4430-1R5M	1.5	20	0.015	1.90
SDC4430-1R8M	1.8	20	0.018	1.76
SDC4430-2R2M	2.2	20	0.020	1.67
SDC4430-2R4M	2.4	20	0.022	1.65
SDC4430-2R7M	2.7	20	0.028	1.45
SDC4430-3R3M	3.3	20	0.032	1.44
SDC4430-3R6M	3.6	20	0.035	1.43
SDC4430-3R9M	3.9	20	0.037	1.32
SDC4430-4R3M	4.3	20	0.043	1.00
SDC4430-4R7M	4.7	20	0.045	0.97
SDC4430-5R1M	5.1	20	0.046	0.94
SDC4430-6R8M	6.8	20	0.065	0.87
SDC4430-7R5M	7.5	20	0.079	0.82
SDC4430-8R2M	8.2	20	0.071	0.77
SDC4430-100M	10	20	0.105	0.70
SDC4430-120M	12	20	0.119	0.67
SDC4430-150M	15	20	0.140	0.54
SDC4430-180M	18	20	0.175	0.50
SDC4430-220M	22	20	0.201	0.48
SDC4430-270M	27	20	0.227	0.40
SDC4430-330M	33	20	0.287	0.35
SDC4430-390M	39	20	0.341	0.33
SDC4430-470M	47	20	0.430	0.32
SDC4430-560M	56	20	0.471	0.30
SDC4430-680M	68	20	0.532	0.27
SDC4430-820M	82	20	0.675	0.23
SDC4430-101M	100	20	0.85	0.21
SDC4430-121M	120	20	1.11	0.20
SDC4430-151M	150	20	1.23	0.17
SDC4430-181M	180	20	1.56	0.15
SDC4430-221M	220	20	1.80	0.14
SDC4430-271M	270	20	2.20	0.13
SDC4430-331M	330	20	2.64	0.12
SDC4430-471M	470	20	3.82	0.10
SDC4430-561M	560	20	4.62	0.09

Notes:

1. Based on ΔL of 30% max or ΔT of 40°C max, whichever occurs first
2. All test data based on 25°C ambient. Part temperature (max ambient + temp rise) must not exceed 105°C under worst case operating conditions. Circuit design, other components, PCB trace size and thickness, airflow and other cooling provisions all effect the part temperature.