

New Product

FEATURES

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

SURFACE MOUNT SHIELDED POWER INDUCTOR SERIES SDC4125

ELECTRICAL SPECIFICATIONS

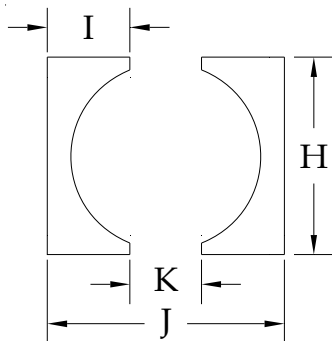
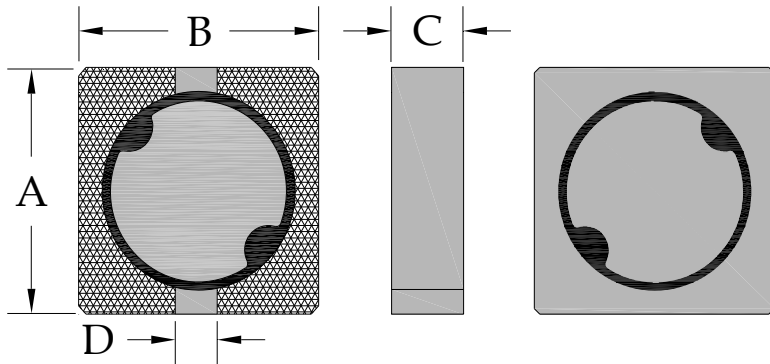
- Inductance range 1uH to 180uH
- Test condition (1uH - 8.2uH) 100kHz @ 0.25Vrms
- Test condition (10uH - 180uH) 1kHz @ 0.25Vrms
- Test equipment Quadtech 1750 LCR Meter

PHYSICAL SPECIFICATIONS

- Operating temp. -25°C to +105°C
- Core Ferrite
- Packaging T & R 3500 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 1.25 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)
SDC4125-1R0M	1.0	20	0.060	1.60
SDC4125-1R2M	1.2	20	0.065	1.40
SDC4125-1R5M	1.5	20	0.077	1.24
SDC4125-1R8M	1.8	20	0.093	1.22
SDC4125-2R2M	2.2	20	0.125	1.20
SDC4125-2R4M	2.4	20	0.139	0.98
SDC4125-3R3M	3.3	20	0.187	0.89
SDC4125-3R5M	3.5	20	0.21	0.85
SDC4125-3R9M	3.9	20	0.22	0.78
SDC4125-4R7M	4.7	20	0.24	0.71
SDC4125-5R6M	5.6	20	0.32	0.62
SDC4125-6R8M	6.8	20	0.35	0.57
SDC4125-8R2M	8.2	20	0.47	0.52
SDC4125-100M	10	20	0.57	0.47
SDC4125-120M	12	20	0.75	0.43
SDC4125-150M	15	20	0.81	0.38
SDC4125-180M	18	20	1.06	0.35
SDC4125-220M	22	20	1.15	0.32
SDC4125-270M	27	20	1.67	0.29
SDC4125-330M	33	20	1.84	0.28
SDC4125-390M	39	20	2.31	0.25
SDC4125-470M	47	20	2.63	0.22
SDC4125-560M	56	20	2.86	0.20
SDC4125-680M	68	20	3.94	0.18
SDC4125-820M	82	20	4.90	0.16
SDC4125-101M	100	20	5.74	0.14
SDC4125-121M	120	20	7.31	0.13
SDC4125-151M	150	20	9.08	0.12
SDC4125-181M	180	20	9.50	0.11

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.