

New Product

**SURFACE MOUNT
SHIELDED POWER INDUCTOR
SERIES SDC1015**

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

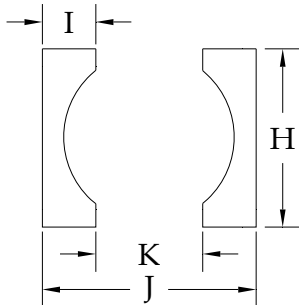
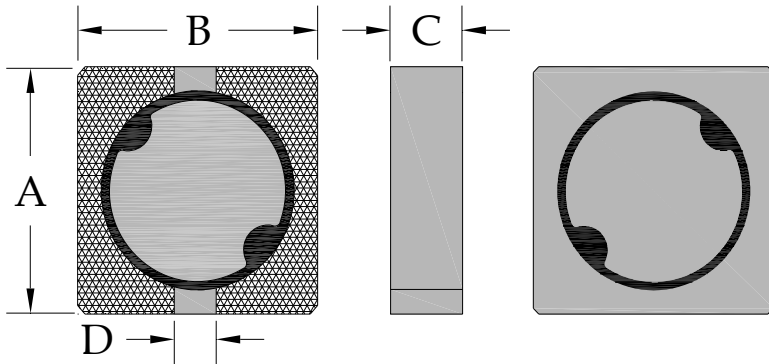
- Inductance range 1uH to 2.2mH
- Test condition (1uH - 8.2uH) 100kHz @ 0.25Vrms
- Test condition (10uH - 2.2mH) 1kHz @ 0.25Vrms
- Test equipment Quadtech 1750 LCR Meter

PHYSICAL SPECIFICATIONS

- Operating temp. -25°C to +105°C
- Core Ferrite
- Packaging T & R 2000 pieces per reel
- Tape & reel spec. Tape 24 mm embossed carrier
Reel 330 mm

Dimensions in millimeters

- Length A 10.0 ± 0.3
- Width B 10.0 ± 0.3
- Height C 1.5 max
- Terminal pitch D 2.5 ref



Suggested PCB land pattern

- H = 10.4
- I = 3.7
- J = 10.4
- K = 3.0

SPECIFICATIONS

Part Number	L(uH)	Tol % ±	DCR (ohms) max	Rated Current (A) (Note 1)
SDC1015-1R0M	1.0	20	0.038	4.1
SDC1015-1R8M	1.8	20	0.047	2.9
SDC1015-2R7M	2.7	20	0.059	2.8
SDC1015-3R3M	3.3	20	0.063	2.7
SDC1015-4R7M	4.7	20	0.086	2.3
SDC1015-6R8M	6.8	20	0.11	1.9
SDC1015-8R2M	8.2	20	0.13	1.8
SDC1015-100M	10	20	0.16	1.60
SDC1015-120M	12	20	0.19	1.40
SDC1015-150M	15	20	0.25	1.25
SDC1015-220M	22	20	0.30	1.10
SDC1015-270M	27	20	0.40	0.90
SDC1015-330M	33	20	0.46	0.89
SDC1015-470M	47	20	0.63	0.62
SDC1015-820M	82	20	1.17	0.49
SDC1015-101M	100	20	1.30	0.50
SDC1015-151M	150	20	2.02	0.40
SDC1015-181M	180	20	2.29	0.41
SDC1015-221M	220	20	2.96	0.33
SDC1015-271M	270	20	3.57	0.32
SDC1015-331M	330	20	4.50	0.28
SDC1015-471M	470	20	6.16	0.24
SDC1015-561M	560	20	7.63	0.21
SDC1015-681M	680	20	9.06	0.18
SDC1015-821M	820	20	11.3	0.17
SDC1015-102M	1000	20	12.8	0.16
SDC1015-122M	1200	20	16.5	0.15
SDC1015-152M	1500	20	21.3	0.12
SDC1015-182M	1800	20	27.8	0.11
SDC1015-222M	2200	20	32.0	0.10

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.