

## New Product

**SURFACE MOUNT  
SHIELDED POWER INDUCTOR  
SERIES SDC6915**

### 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

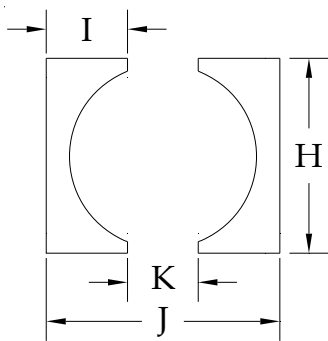
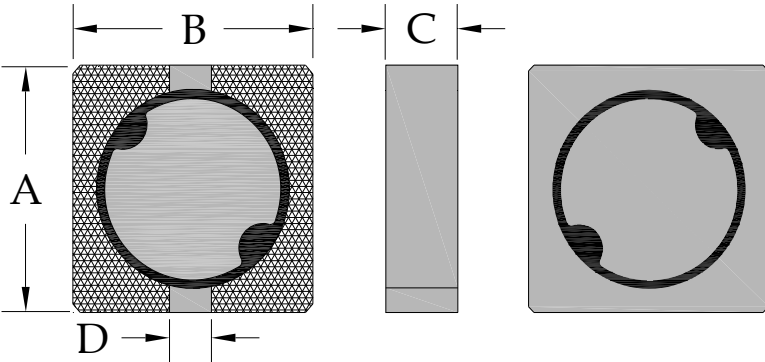
- Inductance range 1uH to 820uH
- Test condition (1uH - 8.2uH) 100kHz @ 0.25Vrms
- Test condition (10uH - 820uH) 1kHz @ 0.25Vrms
- Test equipment Quadtech 1750 LCR Meter

### PHYSICAL SPECIFICATIONS

- Operating temp. -25°C to +105°C
- Core Ferrite
- Packaging T & R 2000 pieces per reel
- Tape & reel spec. Tape 12 mm embossed carrier
- Reel 330 mm

### Dimensions in millimeters

- Length A  $6.9 \pm 0.3$
- Width B  $6.9 \pm 0.3$
- Height C 1.5 max
- Terminal pitch D 2.5 ref



### Suggested PCB land pattern

- H = 7.3
- I = 2.65
- J = 7.3
- K = 2.0

### SPECIFICATIONS

Part Number	L(uH)	Tol % ±	DCR (ohms) max	Rated Current (A) (Note 1)
SDC6915-1R0M	1.0	20	0.050	3.28
SDC6915-1R5M	1.5	20	0.067	2.53
SDC6915-2R0M	2.0	20	0.085	2.06
SDC6915-2R7M	2.7	20	0.11	1.87
SDC6915-3R3M	3.3	20	0.13	1.58
SDC6915-3R9M	3.9	20	0.16	1.46
SDC6915-4R7M	4.7	20	0.20	1.30
SDC6915-5R6M	5.6	20	0.23	1.22
SDC6915-6R8M	6.8	20	0.28	1.16
SDC6915-8R2M	8.2	20	0.31	1.13
SDC6915-100M	10	20	0.33	1.03
SDC6915-120M	12	20	0.46	0.87
SDC6915-150M	15	20	0.53	0.80
SDC6915-180M	18	20	0.62	0.73
SDC6915-220M	22	20	0.70	0.71
SDC6915-270M	27	20	0.91	0.65
SDC6915-330M	33	20	1.15	0.57
SDC6915-390M	39	20	1.38	0.50
SDC6915-470M	47	20	1.54	0.48
SDC6915-560M	56	20	1.86	0.45
SDC6915-680M	68	20	2.32	0.41
SDC6915-820M	82	20	2.54	0.37
SDC6915-101M	100	20	3.20	0.32
SDC6915-121M	120	20	4.24	0.29
SDC6915-151M	150	20	4.77	0.27
SDC6915-181M	180	20	6.05	0.24
SDC6915-221M	220	20	7.95	0.22
SDC6915-271M	270	20	10.51	0.19
SDC6915-331M	330	20	11.63	0.18
SDC6915-391M	390	20	12.97	0.16
SDC6915-471M	470	20	16.87	0.15
SDC6915-561M	560	20	22.30	0.13
SDC6915-681M	680	20	25.11	0.12
SDC6915-821M	820	20	28.41	0.10

#### Notes:

1. Based on  $\Delta L$  of 30% max or  $\Delta T$  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.