

## New Product

**SURFACE MOUNT  
SHIELDED POWER INDUCTOR  
SERIES SDC5520**

### 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

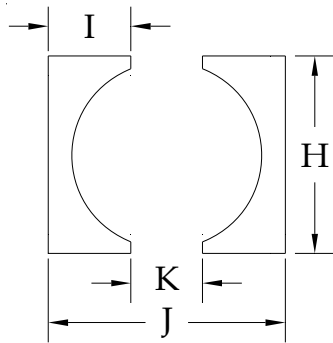
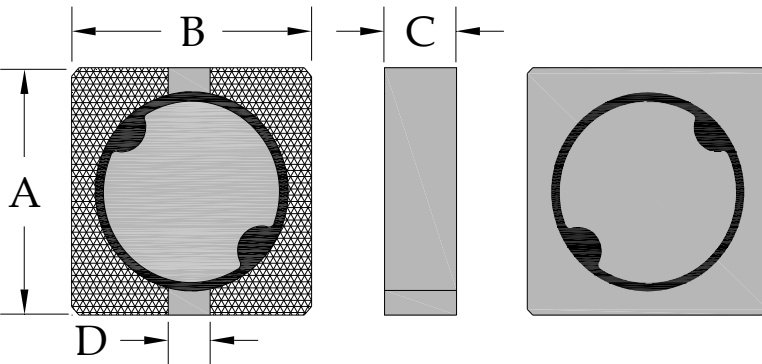
- Inductance range 1.2uH to 10mH
- Test condition (1.2uH - 8.2uH) 100kHz @ 0.25Vrms
- Test condition (10uH - 10mH) 1kHz @ 0.25Vrms
- Test equipment Quadtech 1750 LCR Meter

### 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 5.3 max
- Width B 5.3 max
- Height C 2.0 max
- Terminal pitch D 2.0 ref



### Suggested PCB land pattern

- H = 5.9
- I = 2.0
- J = 5.9
- K = 1.9

### SPECIFICATIONS

Part Number	L(uH)	Tol % ±	DCR (ohms) max	Rated Current (A) (Note 1)
SDC5520-1R2M	1.2	20	0.044	2.15
SDC5520-2R0M	2.0	20	0.046	1.90
SDC5520-2R2M	2.2	20	0.059	1.63
SDC5520-3R3M	3.3	20	0.062	1.50
SDC5520-3R5M	3.5	20	0.073	1.34
SDC5520-4R1M	4.1	20	0.081	1.20
SDC5520-4R7M	4.7	20	0.087	1.14
SDC5520-5R6M	5.6	20	0.093	1.00
SDC5520-6R8M	6.8	20	0.105	0.95
SDC5520-8R2M	8.2	20	1.390	0.90
SDC5520-100M	10	20	0.150	0.76
SDC5520-120M	12	20	0.170	0.66
SDC5520-150M	15	20	0.210	0.63
SDC5520-220M	22	20	0.275	0.56
SDC5520-330M	33	20	0.455	0.44
SDC5520-390M	39	20	0.540	0.38
SDC5520-470M	47	20	0.730	0.35
SDC5520-560M	56	20	0.800	0.32
SDC5520-680M	68	20	0.935	0.30
SDC5520-101M	100	20	1.50	0.23
SDC5520-121M	120	20	1.91	0.22
SDC5520-151M	150	20	2.68	0.21
SDC5520-181M	180	20	3.05	0.20
SDC5520-221M	220	20	3.52	0.195
SDC5520-271M	270	20	4.38	0.193
SDC5520-331M	330	20	5.56	0.190
SDC5520-471M	470	20	7.82	0.180
SDC5520-561M	560	20	9.79	0.170
SDC5520-821M	820	20	15.00	0.120
SDC5520-392M	3900	20	89.88	0.042
SDC5520-472M	4700	20	101.12	0.038
SDC5520-562M	5600	20	115.00	0.036
SDC5520-682M	6800	20	152.00	0.030
SDC5520-103M	10000	20	201.16	0.026

#### 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.