New Product

SURFACE MOUNT
SHIELDED POWER INDUCTOR
SERIES SDC6919

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

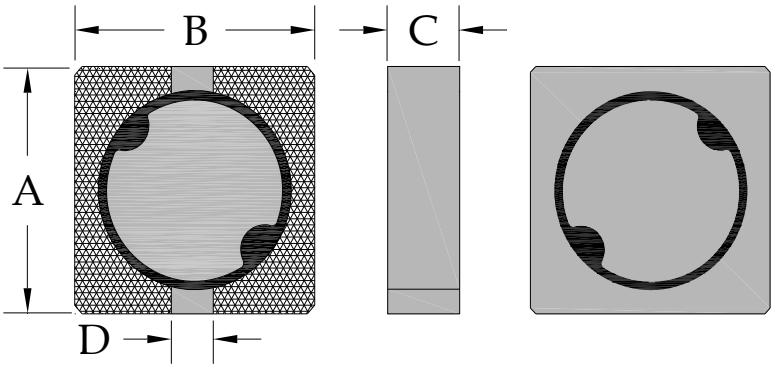
- Inductance range	1uH to 1.5mH
- Test condition (1uH - 8.2uH)	100kHz @ 0.25Vrms
- Test condition (10uH - 1.5mH)	1kHz @ 0.25Vrms
- Test equipment	Quadtech 1750 LCR Meter

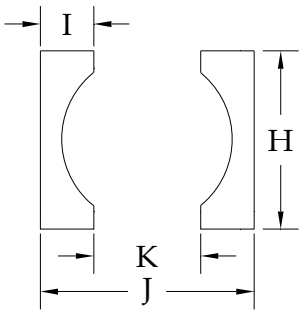
PHYSICAL SPECIFICATIONS

- 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 ± 0.3
Width B	6.9 ± 0.3
Height C	1.9 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)
SDC6919-1R0M	1.0	20	0.035	3.52
SDC6919-1R8M	1.8	20	0.052	3.05
SDC6919-2R2M	2.2	20	0.071	2.50
SDC6919-3R0M	3.0	20	0.086	2.15
SDC6919-3R9M	3.9	20	0.11	2.01
SDC6919-4R7M	4.7	20	0.13	1.95
SDC6919-5R6M	5.6	20	0.15	1.82
SDC6919-6R8M	6.8	20	0.17	1.67
SDC6919-8R2M	8.2	20	0.19	1.52
SDC6919-100M	10	20	0.24	1.39
SDC6919-120M	12	20	0.29	1.22
SDC6919-150M	15	20	0.38	1.09
SDC6919-180M	18	20	0.44	1.03
SDC6919-220M	22	20	0.49	0.95
SDC6919-270M	27	20	0.64	0.84
SDC6919-330M	33	20	0.74	0.80
SDC6919-390M	39	20	0.91	0.75
SDC6919-470M	47	20	1.02	0.69
SDC6919-560M	56	20	1.26	0.63
SDC6919-680M	68	20	1.57	0.56
SDC6919-820M	82	20	1.89	0.51
SDC6919-101M	100	20	2.12	0.47
SDC6919-121M	120	20	2.55	0.42
SDC6919-151M	150	20	3.37	0.37
SDC6919-181M	180	20	3.73	0.32
SDC6919-221M	220	20	4.54	0.29
SDC6919-271M	270	20	5.97	0.25
SDC6919-331M	330	20	7.74	0.23
SDC6919-391M	390	20	9.92	0.21
SDC6919-471M	470	20	12.95	0.18
SDC6919-561M	560	20	14.36	0.16
SDC6919-681M	680	20	18.52	0.14
SDC6919-821M	820	20	20.23	0.13
SDC6919-102M	1000	20	28.25	0.11
SDC6919-122M	1200	20	31.85	0.10
SDC6919-152M	1500	20	36.72	0.095

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.