

New Product

**SURFACE MOUNT
SHIELDED POWER INDUCTOR
SERIES SDA5530**

FEATURES

- RoHS compliant
- High current handling capacity
- Ultra thin
- Low profile
- A perfect fit for various applications including DC-DC converters, laptops and mobile devices.

ELECTRICAL SPECIFICATIONS

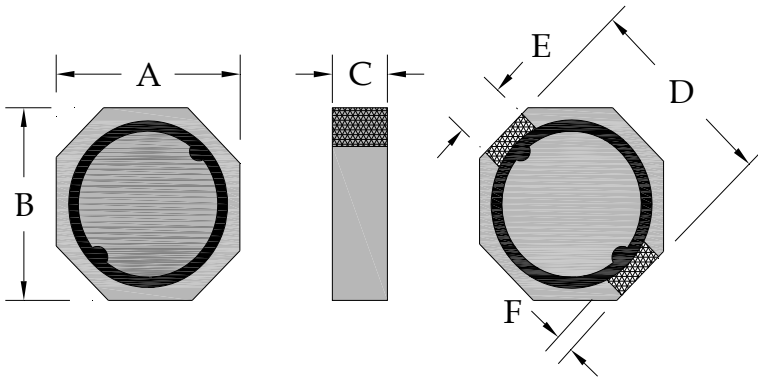
- Inductance range 1uH to 2.5mH
- Test condition (1uH - 8.2uH) 100kHz @ 0.25Vrms
- Test condition (10uH - 2.5mH) 1kHz @ 0.25Vrms
- Test equipment Quadtech 1750 LCR Meter

PHYSICAL SPECIFICATIONS

- Operating temp. -25°C to +105°C
- Core Ferrite
- Packaging T & R 2500 pieces per reel
- Tape & reel spec. Tape 12 mm embossed carrier
Reel 330 mm

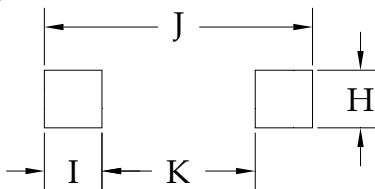
Dimensions in millimeters

- Length A 5.3 max
- Width B 5.3 max
- Height C 3.0 max
- D 5.9 ± 0.4
- Term width E 1.6 ref
- Term length F 0.5 ref



Suggested PCB land pattern

- H = 1.9
- I = 0.9
- J = 5.7
- K = 3.9



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.

SPECIFICATIONS

Part Number	L(uH)	Tol % ±	DCR (ohms) max	Rated Current (A) (Note 1)
SDA5530-1R0M	1.0	20	0.015	4.00
SDA5530-1R1M	1.1	20	0.020	3.87
SDA5530-1R2M	1.2	20	0.022	3.50
SDA5530-2R0M	2.0	20	0.027	2.50
SDA5530-2R2M	2.2	20	0.029	1.90
SDA5530-3R3M	3.3	20	0.034	2.36
SDA5530-3R5M	3.5	20	0.040	1.95
SDA5530-4R7M	4.7	20	0.045	1.87
SDA5530-5R6M	5.6	20	0.052	1.60
SDA5530-6R8M	6.8	20	0.068	1.51
SDA5530-8R2M	8.2	20	0.084	1.38
SDA5530-100M	10	20	0.090	1.33
SDA5530-120M	12	20	0.120	1.06
SDA5530-150M	15	20	0.142	1.05
SDA5530-180M	18	20	0.192	0.90
SDA5530-220M	22	20	0.208	0.86
SDA5530-270M	27	20	0.222	0.75
SDA5530-330M	33	20	0.257	0.72
SDA5530-390M	39	20	0.320	0.64
SDA5530-470M	47	20	0.352	0.62
SDA5530-560M	56	20	0.459	0.53
SDA5530-680M	68	20	0.525	0.51
SDA5530-820M	82	20	0.770	0.48
SDA5530-101M	100	20	0.801	0.43
SDA5530-121M	120	20	0.850	0.34
SDA5530-151M	150	20	1.10	0.26
SDA5530-181M	180	20	1.19	0.24
SDA5530-221M	220	20	1.53	0.20
SDA5530-331M	330	20	2.03	0.19
SDA5530-391M	390	20	3.00	0.16
SDA5530-471M	470	20	3.50	0.15
SDA5530-561M	560	20	3.08	0.14
SDA5530-122M	1200	20	8.50	0.07
SDA5530-152M	1500	20	10.00	0.065
SDA5530-182M	1800	20	13.15	0.062
SDA5530-222M	2200	20	19.00	0.050
SDA5530-252M	2500	20	20.00	0.045