

## New Product

**SURFACE MOUNT  
SHIELDED POWER INDUCTOR  
SERIES SDA4180**

### 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.

### SPECIFICATIONS

### ELECTRICAL SPECIFICATIONS

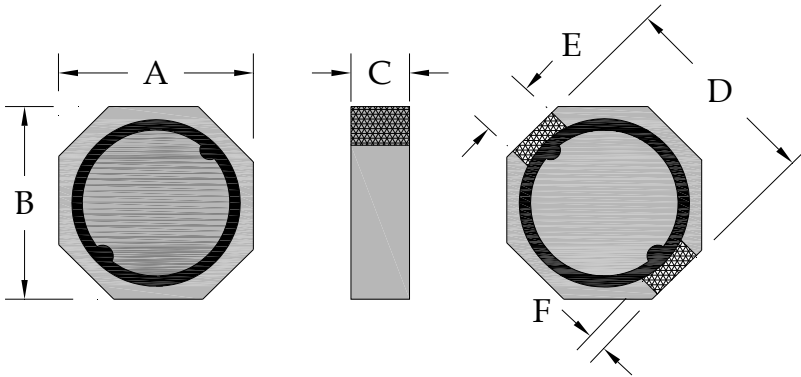
- Inductance range 0.47uH to 2200uH
- Test condition (0.47uH - 8.2uH) 100kHz @ 0.25Vrms
- Test condition (10uH - 2200uH) 1kHz @ 0.25Vrms
- Test equipment Quadtech 1750 LCR Meter

### 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

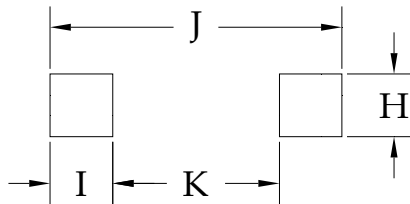
### Dimensions in millimeters

- Length A 3.85± 0.30
- Width B 3.85± 0.30
- Height C 1.8 ± 0.2
- D 4.4 ± 0.4
- Term width E 1.6 ref
- Term length F 0.5 ref



### Suggested PCB land pattern

- H = 1.9
- I = 0.8
- J = 4.6
- K = 3.0



Part Number	L(uH)	Tol % ±	DCR (ohms) max	Rated Current (A) (Note 1)
SDA4180-R47M	0.47	20	0.017	1.84
SDA4180-1R0M	1.0	20	0.030	1.80
SDA4180-1R2M	1.2	20	0.083	1.70
SDA4180-1R5M	1.5	20	0.052	1.60
SDA4180-1R8M	1.8	20	0.056	1.55
SDA4180-2R0M	2.0	20	0.057	1.51
SDA4180-2R2M	2.2	20	0.058	1.50
SDA4180-2R4M	2.4	20	0.059	1.41
SDA4180-2R5M	2.5	20	0.059	1.40
SDA4180-2R7M	2.7	20	0.060	1.35
SDA4180-3R3M	3.3	20	0.064	1.30
SDA4180-3R5M	3.5	20	0.127	1.30
SDA4180-4R7M	4.7	20	0.146	1.10
SDA4180-5R6M	5.6	20	0.176	0.95
SDA4180-6R2M	6.2	20	0.220	0.91
SDA4180-6R8M	6.8	20	0.238	0.90
SDA4180-8R2M	8.2	20	0.272	0.80
SDA4180-100M	10	20	0.299	0.70
SDA4180-150M	15	20	0.472	0.61
SDA4180-220M	22	20	0.592	0.52
SDA4180-270M	27	20	0.630	0.44
SDA4180-330M	33	20	1.075	0.43
SDA4180-470M	47	20	1.309	0.34
SDA4180-680M	68	20	2.613	0.25
SDA4180-820M	82	20	2.950	0.20
SDA4180-101M	100	20	3.255	0.19
SDA4180-151M	150	20	3.55	0.12
SDA4180-221M	220	20	4.90	0.09
SDA4180-331M	330	20	7.28	0.08
SDA4180-681M	680	20	13.37	0.07
SDA4180-102M	1000	20	19.55	0.065
SDA4180-152M	1500	20	36.15	0.038
SDA4180-182M	1800	20	57.62	0.036
SDA4180-222M	2200	20	84.43	0.035

#### 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.