

New Product

**SURFACE MOUNT
SHIELDED POWER INDUCTOR
SERIES SDA5125**

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

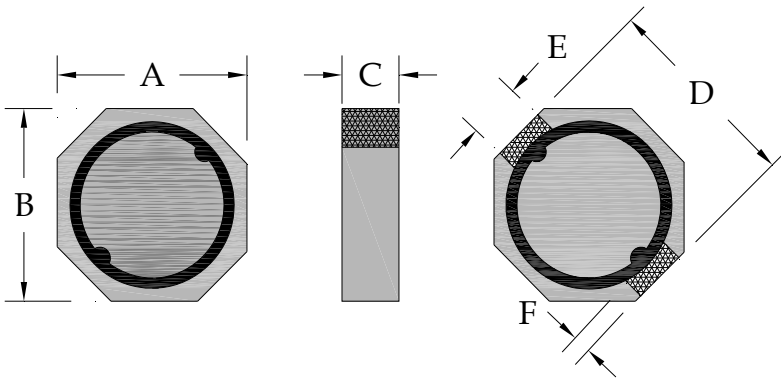
- Inductance range 1.0uH to 560uH
- Test condition (1.0uH - 8.2uH) 100kHz @ 0.25Vrms
- Test condition (10uH - 560uH) 1kHz @ 0.25Vrms
- Test equipment Quadtech 1750 LCR Meter

PHYSICAL SPECIFICATIONS

- Operating temp. -25°C to +105°C
- Core Ferrite
- Packaging T & R 4000 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 1.25 max
- D 5.9 ± 0.4
- Term width E 1.6 ref
- Term length F 0.5 ref

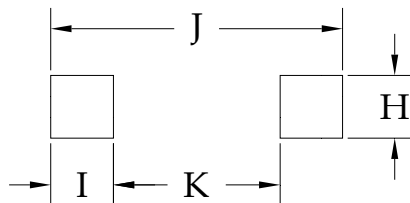


SPECIFICATIONS

Part Number	L(uH)	Tol % ±	DCR (ohms) max	Rated Current (A) (Note 1)
SDA5125-1R0M	1.0	20	0.044	1.62
SDA5125-1R2M	1.2	20	0.045	1.61
SDA5125-2R0M	2.0	20	0.062	1.26
SDA5125-2R2M	2.2	20	0.067	1.19
SDA5125-3R3M	3.3	20	0.095	0.93
SDA5125-3R5M	3.5	20	0.096	0.93
SDA5125-4R7M	4.7	20	0.12	0.78
SDA5125-5R6M	5.6	20	0.14	0.74
SDA5125-6R8M	6.8	20	0.17	0.62
SDA5125-8R2M	8.2	20	0.23	0.60
SDA5125-100M	10	20	0.238	0.56
SDA5125-150M	15	20	0.402	0.42
SDA5125-220M	22	20	0.55	0.37
SDA5125-330M	33	20	0.78	0.31
SDA5125-470M	47	20	1.14	0.27
SDA5125-680M	68	20	1.53	0.20
SDA5125-101M	100	20	2.13	0.16
SDA5125-121M	120	20	2.37	0.15
SDA5125-151M	150	20	3.39	0.13
SDA5125-181M	180	20	4.12	0.12
SDA5125-221M	220	20	4.51	0.11
SDA5125-271M	270	20	5.62	0.10
SDA5125-331M	330	20	6.75	0.098
SDA5125-471M	470	20	11.23	0.084
SDA5125-561M	560	20	12.38	0.078

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.