New Product

SURFACE MOUNT
SHIELDED POWER INDUCTOR
SERIES SDA4125

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

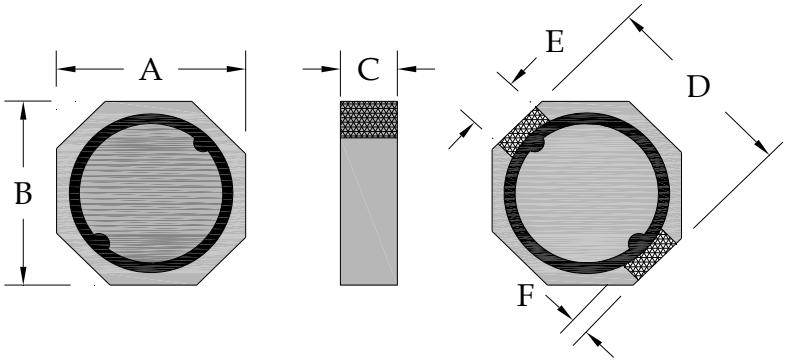
- Inductance range	1uH to 180uH
- Test condition (1uH - 8.2uH)	100kHz @ 0.25Vrms
- Test condition (10uH - 180uH)	1kHz @ 0.25Vrms
- Test equipment	Quadtech 1750 LCR Meter

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	1.25 max
D	4.4 ± 0.4
Term width E	1.6 ref
Term length F	0.5 ref

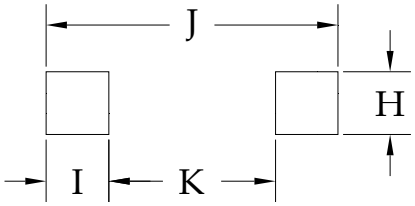


SPECIFICATIONS

Part Number	L(uH)	Tol % ±	DCR (ohms) max	Rated Current (A) (Note 1)
SDA4125-1R0M	1.0	20	0.060	1.60
SDA4125-1R2M	1.2	20	0.065	1.40
SDA4125-1R5M	1.5	20	0.077	1.24
SDA4125-1R8M	1.8	20	0.093	1.22
SDA4125-2R2M	2.2	20	0.125	1.20
SDA4125-2R4M	2.4	20	0.139	0.98
SDA4125-3R3M	3.3	20	0.187	0.89
SDA4125-3R5M	3.5	20	0.21	0.85
SDA4125-3R9M	3.9	20	0.22	0.78
SDA4125-4R7M	4.7	20	0.24	0.71
SDA4125-5R6M	5.6	20	0.32	0.62
SDA4125-6R8M	6.8	20	0.35	0.57
SDA4125-8R2M	8.2	20	0.47	0.52
SDA4125-100M	10	20	0.57	0.47
SDA4125-120M	12	20	0.75	0.43
SDA4125-150M	15	20	0.81	0.38
SDA4125-180M	18	20	1.06	0.35
SDA4125-220M	22	20	1.15	0.32
SDA4125-270M	27	20	1.67	0.29
SDA4125-330M	33	20	1.84	0.28
SDA4125-390M	39	20	2.31	0.25
SDA4125-470M	47	20	2.63	0.22
SDA4125-500M	50	20	2.70	0.21
SDA4125-560M	56	20	2.86	0.20
SDA4125-680M	68	20	3.94	0.18
SDA4125-820M	82	20	4.90	0.16
SDA4125-101M	100	20	5.74	0.14
SDA4125-121M	120	20	7.31	0.13
SDA4125-151M	150	20	9.08	0.12
SDA4125-181M	180	20	9.50	0.11

Suggested PCB land pattern

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



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.