New Product

SURFACE MOUNT
SHIELDED POWER INDUCTOR
SERIES SDD3125

FEATURES

- RoHS compliant
- High current handling capacity in a shielded package
- Easy to use in any design
- Ideal for use in laptops, communication systems and MP3 players

ELECTRICAL SPECIFICATIONS

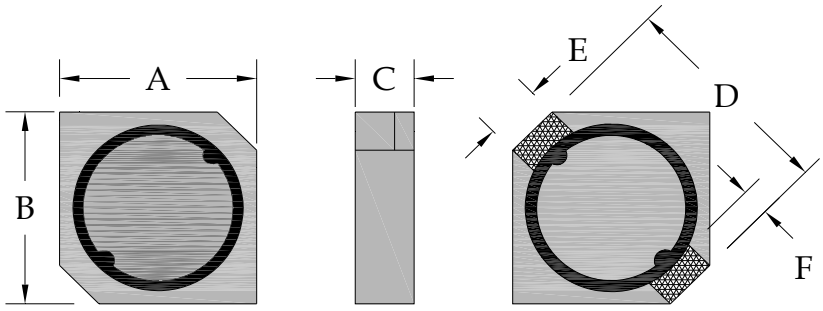
- Inductance range	1uH to 270uH
- Test condition (1uH - 8.2uH)	100kHz @ 0.25Vrms
- Test condition (10uH - 270uH)	1kHz @ 0.25Vrms
- Test equipment	Quadtech 1750 LCR Meter

PHYSICAL SPECIFICATIONS

- Operating temp.		-25ºC to +105ºC
- 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	3.1± 0.3
Width B	3.1± 0.3
Height C	2.5± 0.2
D	3.6 ref
Term width E	1.3 ref
Term length F	0.6 ref

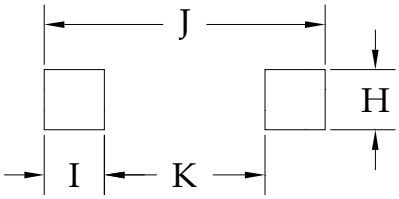


SPECIFICATIONS

Part Number	L(uH)	Tol % ±	DCR (ohms) max	Rated Current (A) (Note 1)
SDD3125-1R0M	1.0	20	0.042	1.81
SDD3125-1R2M	1.2	20	0.051	1.56
SDD3125-1R5M	1.5	20	0.057	1.39
SDD3125-1R8M	1.8	20	0.065	1.28
SDD3125-2R2M	2.2	20	0.073	1.25
SDD3125-2R7M	2.7	20	0.082	1.10
SDD3125-3R3M	3.3	20	0.088	1.00
SDD3125-3R9M	3.9	20	0.11	0.90
SDD3125-4R7M	4.7	20	0.13	0.84
SDD3125-5R6M	5.6	20	0.19	0.80
SDD3125-6R8M	6.8	20	0.22	0.73
SDD3125-8R2M	8.2	20	0.28	0.66
SDD3125-100M	10	20	0.36	0.54
SDD3125-120M	12	20	0.40	0.49
SDD3125-150M	15	20	0.45	0.48
SDD3125-180M	18	20	0.55	0.42
SDD3125-220M	22	20	0.69	0.37
SDD3125-270M	27	20	0.88	0.33
SDD3125-330M	33	20	1.03	0.30
SDD3125-390M	39	20	1.32	0.28
SDD3125-470M	47	20	1.45	0.26
SDD3125-560M	56	20	1.85	0.23
SDD3125-680M	68	20	2.05	0.20
SDD3125-820M	82	20	2.74	0.19
SDD3125-101M	100	20	3.79	0.16
SDD3125-121M	120	20	4.02	0.15
SDD3125-151M	150	20	5.32	0.13
SDD3125-181M	180	20	5.81	0.13
SDD3125-221M	220	20	6.53	0.11
SDD3125-271M	270	20	9.13	0.10

Suggested PCB land pattern

H = 0.9
I = 0.9
J = 4.0
K = 2.2



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.