

New Product

SURFACE MOUNT SHIELDED POWER INDUCTOR SERIES SDE1516

FEATURES

- RoHS compliant
- Hybrid materials technology for a unique construction
- Ideal for use in high-power, high-rel systems
- Suitable as a “drop-in” replacement for many competitive designs

ELECTRICAL SPECIFICATIONS

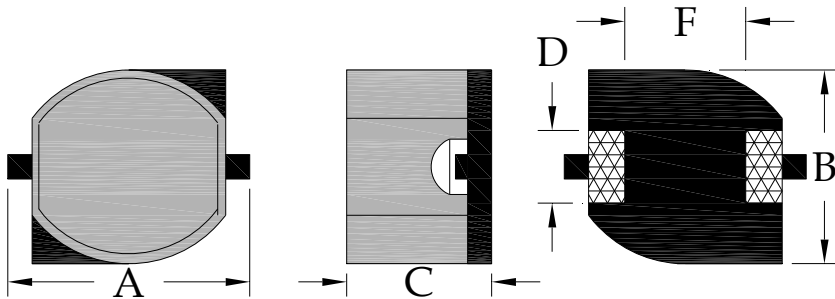
- Inductance range 10uH to 1500uH
- Test condition 1Vrms @ 1kHz
- Test equipment Quadtech 1750 LCR Meter

PHYSICAL SPECIFICATIONS

- Operating temp. -25°C to +125°C
- Core Ferrite
- Packaging T & R 500 pieces per reel
- Tape & reel spec. Tape 24 mm embossed carrier
- Reel 330 mm dia

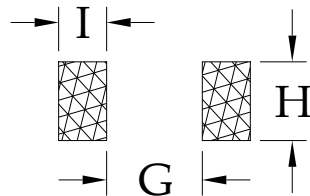
Dimensions in millimeters

- Length A 15.0 max
- Width B 12.7 ± 0.3
- Height C 5.7 ± 0.3
- Terminal width D 3.0 ± 0.2
- Term spacing F 8.2 ± 0.3



Suggested PCB land pattern

- G = 7.3
- H = 3.9
- I = 2.8



SPECIFICATIONS

Part Number	L(uH)	Tol % $\pm$	DCR (ohms) max	Rated Current (A) (Note 1)
SDE1516-100M	10	20	0.05	2.50
SDE1516-120M	12	20	0.05	2.40
SDE1516-150M	15	20	0.06	2.30
SDE1516-180M	18	20	0.07	2.20
SDE1516-220M	22	20	0.08	2.10
SDE1516-270M	27	20	0.10	2.00
SDE1516-330M	33	20	0.10	1.90
SDE1516-390M	39	20	0.12	1.80
SDE1516-470M	47	20	0.14	1.60
SDE1516-560M	56	20	0.15	1.40
SDE1516-680M	68	20	0.18	1.30
SDE1516-820M	82	20	0.20	1.20
SDE1516-101M	100	20	0.25	1.10
SDE1516-121M	120	20	0.30	0.97
SDE1516-151M	150	20	0.35	0.86
SDE1516-181M	180	20	0.40	0.84
SDE1516-221M	220	20	0.50	0.72
SDE1516-271M	270	20	0.60	0.65
SDE1516-331M	330	20	0.70	0.61
SDE1516-391M	390	20	0.80	0.58
SDE1516-471M	470	20	0.90	0.50
SDE1516-561M	560	20	1.10	0.48
SDE1516-681M	680	20	1.20	0.43
SDE1516-821M	820	20	1.50	0.38
SDE1516-102M	1000	20	2.00	0.35
SDE1516-122M	1200	20	2.20	0.32
SDE1516-152M	1500	20	2.50	0.30

Notes:

- Based on ΔL of 10% max or 40°C max temperature rise, whichever occurs first.
- All test data based on 25°C ambient. Part temperature (ambient+temp rise) must not exceed 125°C under worst case operating conditions.

Circuit design, components, PCB trace size and thickness, airflow and other cooling provisions all effect the part temperature.