

**SURFACE MOUNT SHIELDED  
POWER INDUCTORS  
SERIES SDS105**

**FEATURES**

- Compact size
- Excellent for high density applications
- 100% ferrite shielding
- Available in bulk or tape and reel

**ELECTRICAL SPECIFICATIONS**

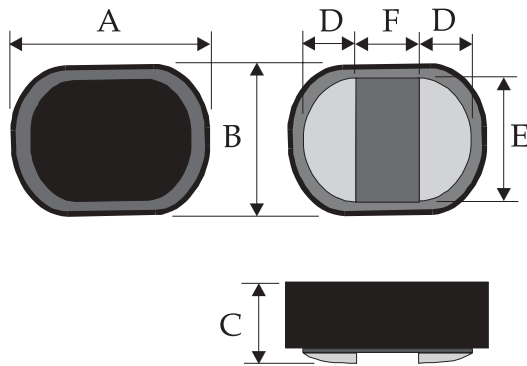
- Inductance range      10uH to 470uH
- Test frequency        1 KHz
- Test equipment        Quadtech 1750 LCR Meter
- Rated current         Determined when coil temperature rises up to 40°C
- Tolerance              ± 10% entire range

**PHYSICAL SPECIFICATIONS**

- Operating temp.      -40°C to +125°C
- Construction         Wound ferrite bobbin covered with ferrite sleeve
- Shielding             Less than 2% coupling
- Terminal              Ag+Sn/Pb electroplated to core
- Packaging             Bulk    100 pieces per bag  
          T & R   700 pieces per reel
- Tape & reel spec.    Tape    24 mm embossed carrier  
          Reel    330 mm paper or plastic

**DIMENSIONS IN MILLIMETERS**

- Length A              10.0 ± 0.5
- Width B                9.0 ± 0.5
- Height C               5.2 ± 0.5
- Terminal width D     2.5 nominal
- Terminal length E    7.8 nominal
- Space between terminals F   2.5 nominal

**SPECIFICATIONS**

Part Number	L (μH)	Tol % ±	DCR max (Ω)	Rated Current (DC) max (mA)
SDS105-100K	10	10	0.05	2100
SDS105-120K	12	10	0.06	1900
SDS105-150K	15	10	0.06	1500
SDS105-180K	18	10	0.07	1350
SDS105-220K	22	10	0.07	1300
SDS105-270K	27	10	0.07	1300
SDS105-330K	33	10	0.09	1000
SDS105-390K	39	10	0.11	950
SDS105-470K	47	10	0.13	920
SDS105-560K	56	10	0.14	900
SDS105-680K	68	10	0.15	850
SDS105-820K	82	10	0.17	800
SDS105-101K	100	10	0.19	650
SDS105-121K	120	10	0.21	620
SDS105-151K	150	10	0.26	600
SDS105-181K	180	10	0.29	500
SDS105-221K	220	10	0.39	450
SDS105-271K	270	10	0.50	420
SDS105-331K	330	10	0.63	400
SDS105-391K	390	10	0.78	400
SDS105-471K	470	10	0.90	390

**SUGGESTED LAND PATTERN**

- A = 2.5 mm
- B = 9.5 mm
- C = 5.0 mm

