

**SURFACE MOUNT SHIELDED  
POWER INDUCTOR  
SERIES SDS54**

**FEATURES**

- Small size. Excellent for high density applications
- 100% ferrite shielding
- Sturdy construction

**ELECTRICAL SPECIFICATIONS**

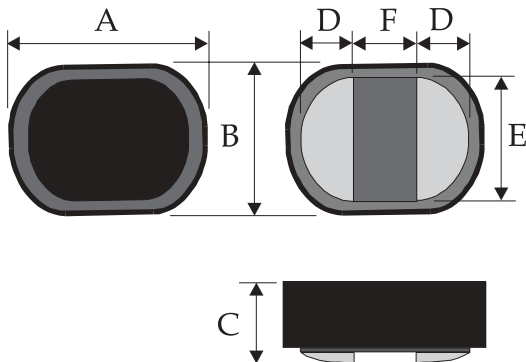
- Inductance range      10uH to 100uH
- Test frequency        1.0 KHz
- Test equipment        Quadtech 1750 LCR Meter
- Rated current         Determined when coil temperature rises up to 40°C
- Tolerance              ± 10%

**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   1500 pieces per reel
- Tape & reel spec.    Tape    16 mm embossed carrier  
          Reel    330 mm paper or plastic

**DIMENSIONS IN MILLIMETERS**

- Length A              6.5 ± 0.5
- Width B               6.0 ± 0.5
- Height C               3.3 ± 0.5
- Terminal width D     1.3 nominal
- Terminal length E    4.1 nominal
- Space between terminals F   1.3 nominal

**SPECIFICATIONS**

Part Number	L (μH)	Tol % ±	DCR max (Ω)	Rated Current (mA)
SDS54-100K	10	10	0.14	1000
SDS54-120K	12	10	0.16	940
SDS54-150K	15	10	0.18	860
SDS54-180K	18	10	0.22	780
SDS54-220K	22	10	0.28	760
SDS54-270K	27	10	0.32	640
SDS54-330K	33	10	0.41	610
SDS54-390K	39	10	0.47	530
SDS54-470K	47	10	0.51	500
SDS54-560K	56	10	0.68	460
SDS54-680K	68	10	0.80	420
SDS54-820K	82	10	0.90	380
SDS54-101K	100	10	0.98	300

**SUGGESTED LAND PATTERN**

- A = 1.2 mm
- B = 6.5 mm
- C = 1.7 mm

