

**SURFACE MOUNT SHIELDED  
POWER INDUCTORS  
SERIES SDS74**

**FEATURES**

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

**ELECTRICAL SPECIFICATIONS**

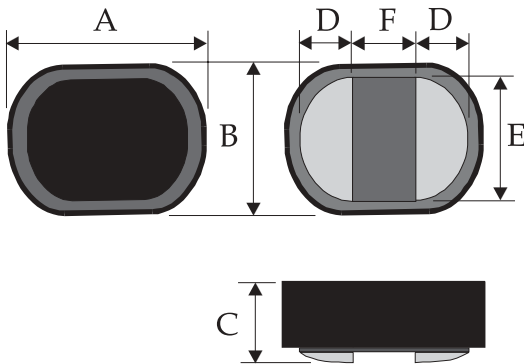
- Inductance range      1uH to 270uH
- Test frequency        1 KHz
- Test equipment        Quadtech 1750 LCR Meter
- Rated current         Determined when coil temperature rises up to 40°C
- Tolerance              ± 10%

**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   1000 pieces per reel
- Tape & reel spec.    Tape    16 mm embossed carrier  
          Reel    330 mm paper or plastic

**DIMENSIONS IN MILLIMETERS**

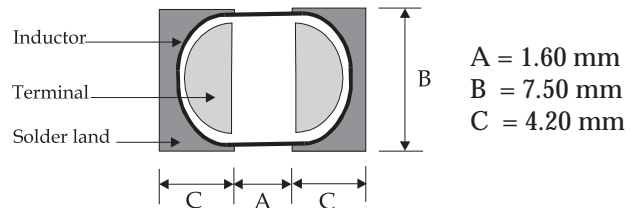
- Length A              7.80 ± 0.35
- Width B                7.05 ± 0.35
- Height C               5.25 max.
- Terminal width D     2.10 nominal
- Terminal length E    5.60 nominal
- Space between terminals F   1.80 nominal



**SPECIFICATIONS**

Part Number	L (μH)	Tol % ±	DCR max (Ω)	Rated Current (DC) max (mA)
SDS74-1R0K	1.0	10	0.010	3000
SDS74-1R5K	1.5	10	0.011	3000
SDS74-2R2K	2.2	10	0.012	3000
SDS74-3R3K	3.3	10	0.018	2500
SDS74-5R0K	5.0	10	0.024	2000
SDS74-6R5K	6.5	10	0.027	2000
SDS74-8R2K	8.2	10	0.038	2000
SDS74-100K	10	10	0.046	1800
SDS74-120K	12	10	0.057	1700
SDS74-150K	15	10	0.070	1500
SDS74-180K	18	10	0.080	1450
SDS74-220K	22	10	0.086	1400
SDS74-270K	27	10	0.115	1250
SDS74-330K	33	10	0.132	1100
SDS74-390K	39	10	0.178	1050
SDS74-470K	47	10	0.195	1000
SDS74-560K	56	10	0.220	900
SDS74-680K	68	10	0.270	900
SDS74-820K	82	10	0.314	800
SDS74-101K	100	10	0.350	680
SDS74-151K	150	10	0.677	600
SDS74-181K	180	10	0.688	500
SDS74-221K	220	10	0.827	450
SDS74-271K	270	10	0.883	400

**SUGGESTED LAND PATTERN**



A = 1.60 mm  
B = 7.50 mm  
C = 4.20 mm