

**SURFACE MOUNT SHIELDED
POWER INDUCTORS
SERIES TS35 & TS45**

FEATURES

- Compact size
- High current handling capacity
- Encapsulated and self shielded
- Good for flow and reflow soldering

ELECTRICAL SPECIFICATIONS

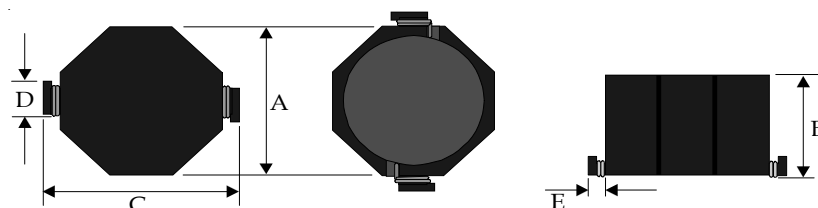
- Inductance range TS35 from 0.47uH to 47uH
 TS45 from 1.0uH to 100uH
- Rated current range TS35 from 1.2 to 5.0 amps
 TS45 from 1.0 to 7.0 amps
- Test frequency 1 KHz @ 10mV
- Tolerance ± 10% for both TS series
- Test equipment QuadTech 1750 LCR Meter
- Rated current Measured when coil temperature rise is less than 20°C

PHYSICAL SPECIFICATIONS

- Operating temp. -55°C to +105°C
- Construction Toroid encapsulated in the cup with epoxy
- Core Iron powder
- Packaging Bulk 100 pieces per bag
 T & R Available on high volume orders

DIMENSIONS IN INCHES

SERIES	BODY SIDE A	HEIGHT B	TOTAL LENGTH C	TERMINAL WIDTH D	TERMINAL LENGTH E
TS35	0.35" ± 0.01"	0.23" ± 0.03"	0.45" ± 0.01"	0.08" ± 0.01"	0.05" ± 0.01"
TS45	0.45" ± 0.01"	0.29" ± 0.03"	0.55" ± 0.01"	0.10" ± 0.01"	0.05" ± 0.01"



TS35 SPECIFICATIONS

Part Number	L (μH)	Tol % ±	DCR max (Ω)	Rated Current (DC) mA
TS35-R47K	0.47	10	0.017	5000
TS35-R68K	0.68	10	0.018	4800
TS35-R82K	0.82	10	0.019	4600
TS35-1R0K	1.0	10	0.020	4400
TS35-2R2K	2.2	10	0.024	4000
TS35-3R3K	3.3	10	0.027	3800
TS35-4R7K	4.7	10	0.033	3600
TS35-5R6K	5.6	10	0.041	3300
TS35-6R8K	6.8	10	0.045	3000
TS35-8R2K	8.2	10	0.052	2700
TS35-100K	10	10	0.067	2500
TS35-120K	12	10	0.075	2300
TS35-150K	15	10	0.085	2100
TS35-180K	18	10	0.089	1900
TS35-220K	22	10	0.099	1700
TS35-330K	33	10	0.148	1400
TS35-470K	47	10	0.190	1200

TS45 SPECIFICATIONS

Part Number	L (μH)	Tol % ±	DCR max (Ω)	Rated Current (DC) mA
TS45-1R0K	1.0	10	0.010	7000
TS45-2R2K	2.2	10	0.019	6000
TS45-3R3K	3.3	10	0.022	4700
TS45-4R7K	4.7	10	0.030	4200
TS45-5R6K	5.6	10	0.032	3700
TS45-6R8K	6.8	10	0.035	3300
TS45-8R2K	8.2	10	0.046	3000
TS45-100K	10	10	0.051	2800
TS45-120K	12	10	0.067	2500
TS45-150K	15	10	0.075	2300
TS45-180K	18	10	0.108	2000
TS45-220K	22	10	0.116	1800
TS45-330K	33	10	0.161	1500
TS45-470K	47	10	0.193	1300
TS45-560K	56	10	0.255	1200
TS45-820K	82	10	0.327	1100
TS45-101K	100	10	0.417	1000

SUGGESTED LAND PATTERN

SERIES	SPACING "A"	WIDTH "B"	LENGTH "C"
TS35	0.34"	0.12"	0.08"
TS45	0.44"	0.14"	0.08"

