

**SURFACE MOUNT
COMMON MODE POWER INDUCTORS
SERIES TCS55 & TCS65**

FEATURES

- Compact size
- Encapsulated and self shielded
- Good for flow and reflow soldering

ELECTRICAL SPECIFICATIONS

- Inductance range 10uH to 1000uH
- Test frequency 1 KHz @ 10mV
- Rated current range TCS55 1.0 to 4.1 Amps
TCS65 1.5 to 6.0 Amps
- Tolerance ± 10% for both TCS series
- Test equipment QuadTech 1750 LCR Meter or HP-4192A
- Rated current Based on coil temperature rise is less than 20°C

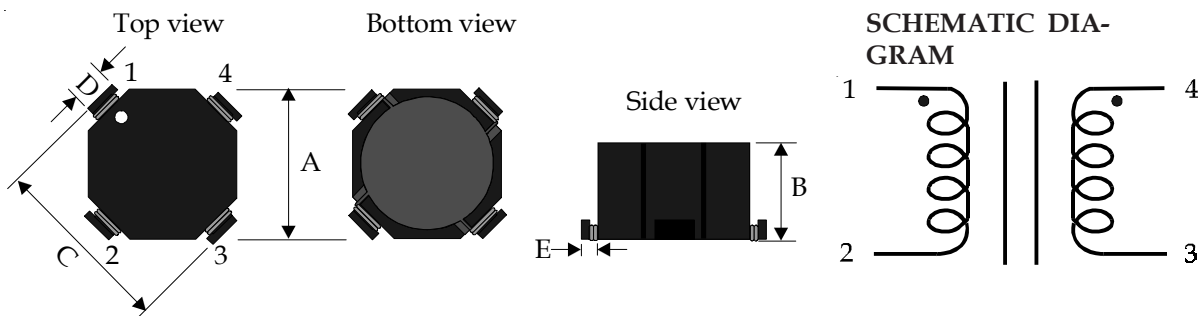
PHYSICAL SPECIFICATIONS

- Operating temp. -55°C to +105°C
- Construction Toroid encapsulated in the cup with epoxy
- Core Ferrite
- Marking White dot designates pin one
- Packaging Bulk 100 pieces per bag
T & R Available upon request

DIMENSIONS IN INCHES

SERIES	BODY SIDE A	HEIGHT B	TOTAL LENGTH C	TERMINAL WIDTH D	TERMINAL LENGTH E
TCS55	$0.35" \pm 0.01"$	$0.23" \pm 0.03"$	$0.45" \pm 0.01"$	$0.08" \pm 0.01"$	$0.05" \pm 0.01"$
TCS65	$0.45" \pm 0.01"$	$0.29" \pm 0.03"$	$0.55" \pm 0.01"$	$0.10" \pm 0.01"$	$0.05" \pm 0.01"$

Note: All four terminals are the same



TCS55 SPECIFICATIONS

Part Number	L (μH)	Tol % ±	DCR max (Ω)	Rated Current (mA)
TCS55-100K	10	10	.0094	4100
TCS55-150K	15	10	.0123	4100
TCS55-220K	22	10	.0150	4100
TCS55-330K	33	10	.0175	4100
TCS55-470K	47	10	.0275	3500
TCS55-680K	68	10	.0325	3500
TCS55-101K	100	10	.0525	3100
TCS55-151K	150	10	.0625	3100
TCS55-221K	220	10	.0913	2700
TCS55-331K	330	10	.1475	2400
TCS55-471K	470	10	.2025	2000
TCS55-681K	680	10	.2413	1500
TCS55-102K	1000	10	.2625	1000

TCS65 SPECIFICATIONS

Part Number	L (μH)	Tol % ±	DCR max (Ω)	Rated Current (mA)
TCS65-100K	10	10	.0027	6000
TCS65-150K	15	10	.0035	6000
TCS65-220K	22	10	.0042	6000
TCS65-330K	33	10	.0045	6000
TCS65-470K	47	10	.0082	4800
TCS65-680K	68	10	.0090	4800
TCS65-101K	100	10	.0113	4100
TCS65-151K	150	10	.0143	4100
TCS65-221K	220	10	.0275	3500
TCS65-331K	330	10	.0320	3500
TCS65-471K	470	10	.0437	2400
TCS65-681K	680	10	.0550	2400
TCS65-102K	1000	10	.0725	1500

SUGGESTED LAND PATTERN

SERIES	SPACING "A"	WIDTH "B"	LENGTH "C"
TCS55	0.34"	0.12"	0.08"
TCS65	0.44"	0.14"	0.08"

Note: All 4 solder lands are the same
X and Y dimensions are the same

