

**SURFACE MOUNT
POWER INDUCTORS
STI SERIES**

FEATURES

- Good for IR reflow
- Sturdy construction
- High current handling ability
- Compact, good for high density applications

ELECTRICAL CHARACTERISTICS

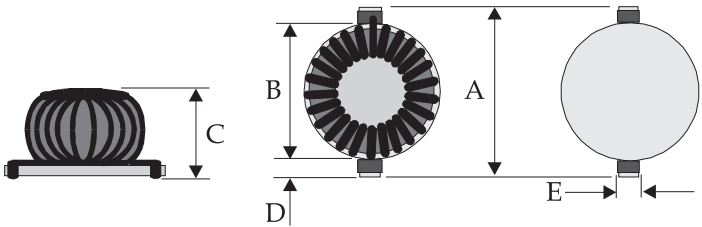
- Inductance range 1.0 μ H to 1000 μ H
- Test frequency 1 KHz @ 10mV
- Rated current range 400mA to 11.0 Amps
- Tolerance \pm 10% over entire range
- Test equipment QuadTech 1750 LCR Meter
- Rated current Based on coil temperature rise not to exceed 40°C

PHYSICAL CHARACTERISTICS

- Operating temperature -55°C to +105°C
- Core Iron Powder
- Safety rating UL94V-0
- Packaging 100 pieces per bag
- Tape & reel Available on high volume orders

DIMENSIONS IN INCHES

SERIES	TOTAL LENGTH " A "	BASE DIAMETER " B "	TOTAL HEIGHT " C "	TERMINAL LENGTH " D "	TERMINAL WIDTH " E "
STI40	0.70" \pm 0.05"	0.46" \pm 0.02"	0.33" \pm 0.03"	0.10" \pm 0.01"	0.13" \pm 0.02"
STI50	0.85" \pm 0.05"	0.62" \pm 0.02"	0.40" \pm 0.03"	0.10" \pm 0.01"	0.13" \pm 0.02"
STI60	0.95" \pm 0.05"	0.70" \pm 0.02"	0.43" \pm 0.03"	0.10" \pm 0.01"	0.13" \pm 0.02"
STI70	1.30" \pm 0.10"	0.99" \pm 0.02"	0.61" \pm 0.03"	0.10" \pm 0.01"	0.13" \pm 0.02"



ELECTRICAL SPECIFICATIONS

STI40 SPECIFICATIONS

Part Number	L (μH)	Tol % ±	DCR max (Ω)	Rated Current (mA)
STI40-1R0K	1.0	10	.0063	4000
STI40-3R3K	3.3	10	.0087	3500
STI40-4R7K	4.7	10	.0150	3000
STI40-6R8K	6.8	10	.0175	2500
STI40-100K	10	10	.0287	2200
STI40-150K	15	10	.0412	1900
STI40-270K	27	10	.0687	1500
STI40-330K	33	10	.0950	1100
STI40-470K	47	10	.1387	800
STI40-560K	56	10	.1512	600
STI40-750K	75	10	.2225	500
STI40-101K	100	10	.2650	400

STI60 SPECIFICATIONS

Part Number	L (μH)	Tol % ±	DCR max (Ω)	Rated Current (mA)
STI60-1R0K	1.0	10	.0025	9000
STI60-2R0K	2.0	10	.0037	8300
STI60-3R3K	3.3	10	.0062	7500
STI60-5R6K	5.6	10	.0075	6000
STI60-8R2K	8.2	10	.0112	5200
STI60-100K	10	10	.0137	4500
STI60-200K	20	10	.0262	3800
STI60-330K	33	10	.0413	3400
STI60-500K	50	10	.0625	3000
STI60-750K	75	10	.0975	2700
STI60-101K	100	10	.1063	2300
STI60-151K	150	10	.1187	1900
STI60-201K	200	10	.2275	1500
STI60-331K	330	10	.5000	1200
STI60-501K	500	10	.6250	1000

STI50 SPECIFICATIONS

Part Number	L (μH)	Tol % ±	DCR max (Ω)	Rated Current (mA)
STI50-1R0K	1.0	10	.0037	6000
STI50-3R3K	3.3	10	.0063	5000
STI50-4R7K	4.7	10	.0100	4500
STI50-6R8K	6.8	10	.0125	4000
STI50-100K	10	10	.0138	3500
STI50-150K	15	10	.0212	3200
STI50-270K	27	10	.0300	2800
STI50-330K	33	10	.0400	2500
STI50-470K	47	10	.0600	2200
STI50-560K	56	10	.0700	2000
STI50-750K	75	10	.0937	1800
STI50-101K	100	10	.1350	1500
STI50-151K	150	10	.2200	1300
STI50-221K	220	10	.2612	1100
STI50-331K	330	10	.4262	900
STI50-471K	470	10	.5212	700
STI50-561K	560	10	.5600	500
STI50-751K	750	10	.8312	400
STI50-102K	1000	10	1.023	400

STI70 SPECIFICATIONS

Part Number	L (μH)	Tol % ±	DCR max (Ω)	Rated Current (mA)
STI70-1R0K	1.0	10	.0012	11000
STI70-2R2K	2.2	10	.0025	10000
STI70-4R7K	4.7	10	.0038	9000
STI70-6R8K	6.8	10	.0050	8500
STI70-100K	10	10	.0075	8000
STI70-150K	15	10	.0088	7500
STI70-180K	18	10	.0100	7000
STI70-220K	22	10	.0125	6500
STI70-270K	27	10	.0163	6000
STI70-470K	47	10	.0213	5500
STI70-101K	100	10	.0475	4000
STI70-251K	250	10	.1375	3000
STI70-331K	330	10	.1750	2500
STI70-501K	500	10	.2750	2000
STI70-751K	750	10	.3250	1300
STI70-102K	1000	10	.5875	1000

SUGGESTED LAND PATTERN

SERIES	SPACING "A"	WIDTH "B"	LENGTH "C"
STI40	0.43"	0.20"	0.12"
STI50	0.58"	0.20"	0.12"
STI60	0.68"	0.20"	0.12"
STI70	0.96"	0.20"	0.12"

