

## CTH8HCF

### Series

From 3.9 $\mu$ H to 150,000 $\mu$ H



#### CHARACTERISTICS

**Description:** Axial leaded power line inductor (UL sleeved).

**Applications:** Used in switching regulators, power amplifiers, power supplies, SCR and TRIAC controls, speaker crossover networks and filters.

**Operating Temperature:** -55°C to +125°C

**Isat:** DC current that will cause inductance to drop by 5%.

**Irms:** Based on the inductance change within 10% of initial value and temperature rise of initial value less than 30°C within coil body.

**Inductance Tolerance:**  $\pm 10\%$

**Testing:** Inductance is tested on an HP4284A at 1KHz.

**Packaging:** Tape & reel.

**Marking:** Parts are marked with inductance code.

**Miscellaneous:** **RoHS Compliant.**

**Additional Information:** Additional electrical & physical information available upon request.

**Samples available. See website for ordering information.**

#### SPECIFICATIONS

Parts are available in  $\pm 10\%$  inductance tolerance only.

Part Number	Inductance ( $\mu$ H)	L Test Freq. (KHz)	DCR ( $\Omega$ ) Max.	Isat (A) Max.	Irms (A)
CTH8HCF-3R9K	3.9	1.0	0.007	47.000	6.000
CTH8HCF-4R7K	4.7	1.0	0.008	42.000	6.000
CTH8HCF-5R6K	5.6	1.0	0.009	35.000	6.000
CTH8HCF-6R8K	6.8	1.0	0.010	29.000	6.000
CTH8HCF-8R2K	8.2	1.0	0.011	24.000	6.000
CTH8HCF-100K	10	1.0	0.012	19.000	6.000
CTH8HCF-120K	12	1.0	0.013	16.000	6.000
CTH8HCF-150K	15	1.0	0.014	14.800	6.000
CTH8HCF-180K	18	1.0	0.015	13.400	6.000
CTH8HCF-220K	22	1.0	0.016	12.400	6.000
CTH8HCF-270K	27	1.0	0.017	11.200	6.000
CTH8HCF-330K	33	1.0	0.021	10.200	6.000
CTH8HCF-390K	39	1.0	0.023	9.300	6.000
CTH8HCF-470K	47	1.0	0.025	8.700	6.000
CTH8HCF-560K	56	1.0	0.028	8.000	6.000
CTH8HCF-680K	68	1.0	0.039	7.000	4.700
CTH8HCF-820K	82	1.0	0.043	6.300	4.700
CTH8HCF-101K	100	1.0	0.055	5.700	3.800
CTH8HCF-121K	120	1.0	0.076	5.300	3.000
CTH8HCF-151K	150	1.0	0.084	4.700	3.000
CTH8HCF-181K	180	1.0	0.096	4.300	3.000
CTH8HCF-221K	220	1.0	0.108	4.000	3.000
CTH8HCF-271K	270	1.0	0.151	3.600	2.300
CTH8HCF-331K	330	1.0	0.168	3.200	2.300
CTH8HCF-391K	390	1.0	0.182	2.900	2.300
CTH8HCF-471K	470	1.0	0.202	2.600	2.300
CTH8HCF-561K	560	1.0	0.348	2.400	1.400
CTH8HCF-681K	680	1.0	0.470	2.200	1.200
CTH8HCF-821K	820	1.0	0.500	2.000	1.200
CTH8HCF-102K	1000	1.0	0.570	1.800	1.200
CTH8HCF-122K	1200	1.0	0.648	1.700	1.200
CTH8HCF-152K	1500	1.0	0.888	1.550	0.900
CTH8HCF-182K	1800	1.0	1.16	1.400	0.750
CTH8HCF-222K	2200	1.0	1.20	1.250	0.750
CTH8HCF-272K	2700	1.0	1.44	1.100	0.750
CTH8HCF-332K	3300	1.0	1.92	1.000	0.590
CTH8HCF-392K	3900	1.0	2.16	0.900	0.590
CTH8HCF-472K	4700	1.0	2.50	0.850	0.590
CTH8HCF-562K	5600	1.0	3.20	0.780	0.450
CTH8HCF-682K	6800	1.0	4.00	0.700	0.450
CTH8HCF-822K	8200	1.0	5.20	0.650	0.350
CTH8HCF-103K	10000	1.0	6.0	0.600	0.350
CTH8HCF-123K	12000	1.0	8.0	0.540	0.270
CTH8HCF-153K	15000	1.0	10.0	0.480	0.200
CTH8HCF-183K	18000	1.0	11.0	0.460	0.200
CTH8HCF-223K	22000	1.0	13.0	0.390	0.200
CTH8HCF-273K	27000	1.0	15.0	0.355	0.200
CTH8HCF-333K	33000	1.0	21.0	0.330	0.160
CTH8HCF-393K	39000	1.0	23.2	0.300	0.160
CTH8HCF-473K	47000	1.0	32.0	0.270	0.120
CTH8HCF-563K	56000	1.0	35.0	0.175	0.120
CTH8HCF-683K	68000	1.0	48.0	0.145	0.095
CTH8HCF-823K	82000	1.0	54.3	0.120	0.095
CTH8HCF-104K	100000	1.0	68.5	0.100	0.070
CTH8HCF-124K	120000	1.0	75.0	0.080	0.070
CTH8HCF-154K	150000	1.0	84.3	0.060	0.070

#### PHYSICAL DIMENSIONS

Size	A Max.	B Max.	C Nom.
mm	25.4	13.97	29.21
inches	1.00	0.55	1.15