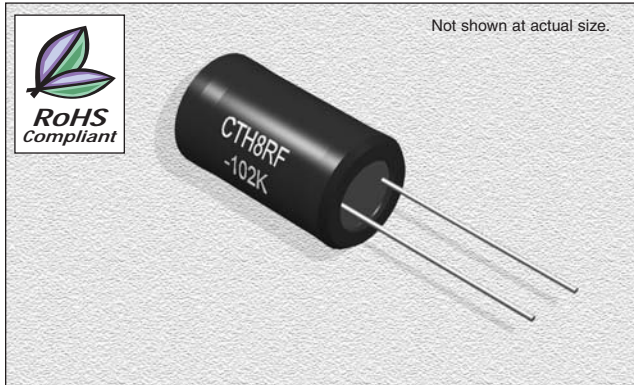


# CTH8RF Series

From 3.9  $\mu$ H to 100,000  $\mu$ H



## CHARACTERISTICS

**Description:** Radial leaded power line inductor (UL sleeved)

**Applications:** Used in switching regulators, power amplifiers, power supplies, SCR and Triac controls, speaker crossover networks, RFI suppression and filters. Various applications

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

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

**Testing:** Inductance is tested on an HP4284A at 1.0 kHz

**Packaging:** Bulk pack

**Marking:** Coils are sleeved in heat resistant polyolefin and labeled with the part number

**Saturation Current:** Lowers inductance by 5%

**Bobbin:** High saturation, allows for high inductance with low DC resistance

**Miscellaneous:** **RoHS Compliant.** Higher current parts available.

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

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

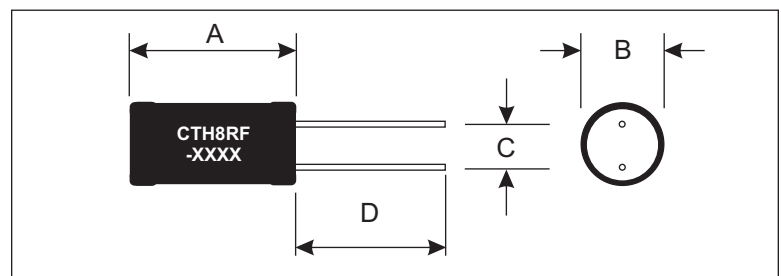
## SPECIFICATIONS

Parts are marked to indicate tolerance available.  
K =  $\pm 10\%$

Part Number	Inductance ( $\mu$ H)	L Test Freq. (kHz)	SRF Min. (MHz)	DCR Max. ( $\Omega$ )	Saturation DC (A)	Wire Dia. Ref. (mm)	Rated AC (A)
CTH8RF-3R9K	3.9	1.0	34	.01	15	1.2	4.0
CTH8RF-4R7K	4.7	1.0	31	.01	14	1.2	4.0
CTH8RF-5R6K	5.6	1.0	29	.01	12	1.0	4.0
CTH8RF-6R8K	6.8	1.0	26	.01	11	.90	4.0
CTH8RF-8R2K	8.2	1.0	23	.01	9.9	.90	4.0
CTH8RF-100K	10	1.0	20	.02	8.7	.80	4.0
CTH8RF-120K	12	1.0	17	.02	8.2	.80	4.0
CTH8RF-150K	15	1.0	14	.02	7.3	.90	4.0
CTH8RF-180K	18	1.0	11	.02	6.6	.80	4.0
CTH8RF-220K	22	1.0	10	.03	6.1	.80	4.0
CTH8RF-270K	27	1.0	9.0	.03	5.3	.80	4.0
CTH8RF-330K	33	1.0	9.0	.03	4.8	.80	4.0
CTH8RF-390K	39	1.0	8.0	.03	4.3	.80	4.0
CTH8RF-470K	47	1.0	7.0	.04	4.0	.80	4.0
CTH8RF-560K	56	1.0	6.0	.04	3.6	.80	3.2
CTH8RF-680K	68	1.0	5.0	.05	3.3	.80	2.5
CTH8RF-820K	82	1.0	4.0	.06	3.1	.75	2.0
CTH8RF-101K	100	1.0	3.0	.09	2.8	.65	1.6
CTH8RF-121K	120	1.0	3.0	.11	2.5	.65	1.6
CTH8RF-151K	150	1.0	3.0	.13	2.2	.65	1.6
CTH8RF-181K	180	1.0	2.0	.15	2.0	.60	1.6
CTH8RF-221K	220	1.0	2.0	.16	1.9	.60	1.6
CTH8RF-271K	270	1.0	2.0	.21	1.6	.55	1.6
CTH8RF-331K	330	1.0	2.0	.21	1.5	.55	1.6
CTH8RF-391K	390	1.0	2.0	.28	1.4	.50	1.6
CTH8RF-471K	470	1.0	1.0	.38	1.2	.50	1.2
CTH8RF-561K	560	1.0	1.0	.42	1.2	.45	1.0
CTH8RF-681K	680	1.0	1.0	.55	1.0	.45	1.0
CTH8RF-821K	820	1.0	1.0	.66	.97	.40	.80
CTH8RF-102K	1000	1.0	1.0	.84	.87	.40	.80
CTH8RF-122K	1200	1.0	1.0	1.0	.79	.40	.60
CTH8RF-152K	1500	1.0	.75	1.2	.70	.37	.60
CTH8RF-182K	1800	1.0	.72	1.6	.64	.32	.60
CTH8RF-222K	2200	1.0	.70	2.0	.58	.30	.50
CTH8RF-272K	2700	1.0	.65	2.1	.53	.30	.40
CTH8RF-332K	3300	1.0	.60	2.6	.47	.30	.40
CTH8RF-392K	3900	1.0	.55	2.8	.43	.29	.40
CTH8RF-472K	4700	1.0	.50	3.2	.39	.30	.40
CTH8RF-562K	5600	1.0	.40	3.9	.36	.30	.32
CTH8RF-682K	6800	1.0	.35	5.7	.32	.25	.25
CTH8RF-822K	8200	1.0	.30	6.3	.29	.25	.25
CTH8RF-103K	10000	1.0	.30	7.3	.26	.22	.25
CTH8RF-123K	12000	1.0	.30	10	.26	.22	.16
CTH8RF-153K	15000	1.0	.30	11	.23	.20	.16
CTH8RF-183K	18000	1.0	.20	15	.21	.20	.13
CTH8RF-223K	22000	1.0	.20	17	.19	.18	.13
CTH8RF-273K	27000	1.0	.15	19	.17	.17	.13
CTH8RF-333K	33000	1.0	.15	27	.15	.16	.10
CTH8RF-393K	39000	1.0	.15	29	.14	.16	.10
CTH8RF-473K	47000	1.0	.10	32	.13	.16	.10
CTH8RF-563K	56000	1.0	.10	43	.12	.16	.08
CTH8RF-683K	68000	1.0	.10	47	.11	.14	.08
CTH8RF-823K	82000	1.0	.10	65	.10	.14	.07
CTH8RF-104K	100000	1.0	.10	72	.10	.13	.07

## PHYSICAL DIMENSIONS

Size	A Max.	B Max.	C	D Min.
mm	23.3	11.9	7.62 $\pm$ 0.5	20.32
inches	0.92	0.47	0.30 $\pm$ 0.020	0.80



04.24.08