CTH8F Series

From 3.9µH to 100,000µH

ENGINEERING KIT #3



CHARACTERISTICS

Descriuption: Axial 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: ±10%
Testing: Inductance is tested on an HP4284A at 1.0kHz
Packaging: Bulk pack standard, Tape & Reel available. Lead length (dimension C) is 15mm max. for parts packaged tape & reel
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.

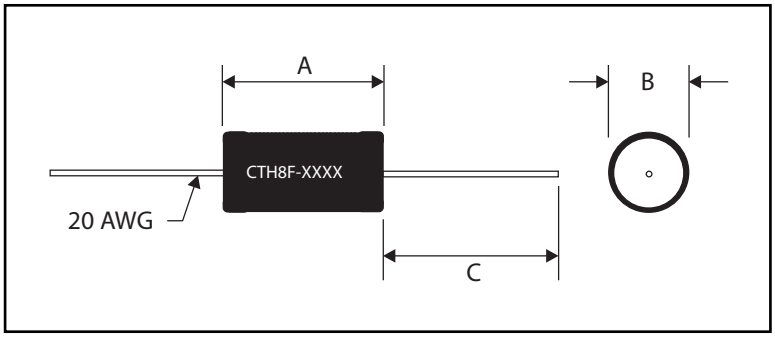
SPECIFICATIONS

Part numbers indicate tolerance available.
K = ±10%

Part Number	Inductance (µH)	L Test Freq. (kHz)	SRF Typ. (MHz)	DCR Max. (Ω)	Saturation DC (A)	Rated AC (A)
CTH8F-3R9K	3.9	1.0	34	0.007	15.5	4.0
CTH8F-4R7K	4.7	1.0	31	0.008	13.9	4.0
CTH8F-5R6K	5.6	1.0	29	0.011	12.6	4.0
CTH8F-6R8K	6.8	1.0	26	0.011	11.6	4.0
CTH8F-8R2K	8.2	1.0	23	0.013	9.89	4.0
CTH8F-100K	10	1.0	20	0.017	8.70	4.0
CTH8F-120K	12	1.0	17	0.019	8.21	4.0
CTH8F-150K	15	1.0	14	0.022	7.34	4.0
CTH8F-180K	18	1.0	11	0.023	6.64	4.0
CTH8F-220K	22	1.0	10	0.026	6.07	4.0
CTH8F-270K	27	1.0	9.0	0.027	5.36	4.0
CTH8F-330K	33	1.0	9.0	0.032	4.82	4.0
CTH8F-390K	39	1.0	8.0	0.033	4.36	4.0
CTH8F-470K	47	1.0	7.0	0.040	3.98	4.0
CTH8F-560K	56	1.0	6.0	0.037	3.66	3.2
CTH8F-680K	68	1.0	5.0	0.047	3.31	2.5
CTH8F-820K	82	1.0	4.0	0.060	3.10	2.0
CTH8F-101K	100	1.0	3.0	0.090	2.79	1.6
CTH8F-121K	120	1.0	3.0	0.113	2.54	1.6
CTH8F-151K	150	1.0	3.0	0.129	2.22	1.6
CTH8F-181K	180	1.0	2.0	0.150	1.98	1.6
CTH8F-221K	220	1.0	2.0	0.162	1.89	1.6
CTH8F-271K	270	1.0	2.0	0.208	1.63	1.6
CTH8F-331K	330	1.0	2.0	0.212	1.51	1.6
CTH8F-391K	390	1.0	2.0	0.281	1.39	1.6
CTH8F-471K	470	1.0	1.0	0.380	1.24	1.2
CTH8F-561K	560	1.0	1.0	0.420	1.17	1.0
CTH8F-681K	680	1.0	1.0	0.548	1.05	1.0
CTH8F-821K	820	1.0	1.0	0.665	0.97	0.8
CTH8F-102K	1000	1.0	1.0	0.844	0.87	0.8
CTH8F-122K	1200	1.0	1.0	1.04	0.79	0.6
CTH8F-152K	1500	1.0	.75	1.18	0.70	0.6
CTH8F-182K	1800	1.0	.72	1.56	0.64	0.6
CTH8F-222K	2200	1.0	.70	2.00	0.58	0.5
CTH8F-272K	2700	1.0	.65	2.06	0.53	0.4
CTH8F-332K	3300	1.0	.60	2.63	0.47	0.4
CTH8F-392K	3900	1.0	.55	2.75	0.43	0.4
CTH8F-472K	4700	1.0	.50	3.19	0.39	0.4
CTH8F-562K	5600	1.0	.40	3.92	0.359	0.315
CTH8F-682K	6800	1.0	.35	5.69	0.322	0.250
CTH8F-822K	8200	1.0	.30	6.32	0.293	0.250
CTH8F-103K	10000	1.0	.30	7.30	0.266	0.250
CTH8F-123K	12000	1.0	.30	9.99	0.257	0.160
CTH8F-153K	15000	1.0	.30	11.2	0.230	0.160
CTH8F-183K	18000	1.0	.20	15.2	0.210	0.130
CTH8F-223K	22000	1.0	.20	16.8	0.190	0.130
CTH8F-273K	27000	1.0	.15	18.6	0.171	0.130
CTH8F-333K	33000	1.0	.15	26.7	0.155	0.100
CTH8F-393K	39000	1.0	.15	29.0	0.143	0.100
CTH8F-473K	47000	1.0	.10	31.8	0.131	0.100
CTH8F-563K	56000	1.0	.10	42.6	0.119	0.083
CTH8F-683K	68000	1.0	.10	46.9	0.108	0.083
CTH8F-823K	82000	1.0	.10	64.9	0.098	0.067
CTH8F-104K	100000	1.0	.10	71.7	0.089	0.067

PHYSICAL DIMENSIONS

Size	A Max.	B Max.	C Typ.	20 AWG Nom.
mm	23.4	11.9	29.2	0.813
inches	0.92	0.47	1.15	0.03



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