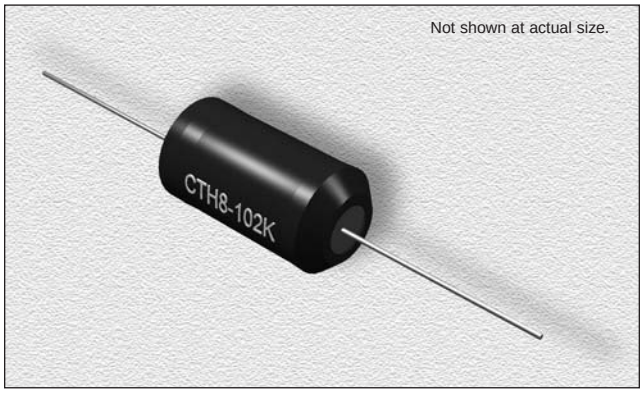
CTH8 Series

From 3.9 µH to 100,000 µH

ENGINEERING KIT #3



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, RFI suppression and filters. Various applications
Operating Temperature: -55°C to +100°C
Inductance Tolerance: ±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: Higher current parts available
Additional Information: Additional electrical & physical information available upon request
Samples available. See website for ordering information.

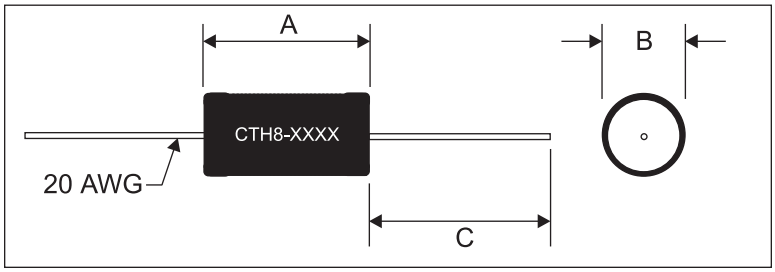
SPECIFICATIONS

Parts are marked to indicate tolerance available.
K = ±10%, M = ±20%

Part Number	Inductance (µH)	L Test Freq. (kHz)	SRF Min. (MHz)	DCR Max. (Ω)	Saturation DC (A)	Rated AC (A)
CTH8-3R9K	3.9	1.0	34	.01	15	4.0
CTH8-4R7K	4.7	1.0	31	.01	14	4.0
CTH8-5R6K	5.6	1.0	29	.01	12	4.0
CTH8-6R8K	6.8	1.0	26	.01	11	4.0
CTH8-8R2K	8.2	1.0	23	.01	9.9	4.0
CTH8-100K	10	1.0	20	.02	8.7	4.0
CTH8-120K	12	1.0	17	.02	8.2	4.0
CTH8-150K	15	1.0	14	.02	7.3	4.0
CTH8-180K	18	1.0	11	.02	6.6	4.0
CTH8-220K	22	1.0	10	.03	6.1	4.0
CTH8-270K	27	1.0	9.0	.03	5.3	4.0
CTH8-330K	33	1.0	9.0	.03	4.8	4.0
CTH8-390K	39	1.0	8.0	.03	4.3	4.0
CTH8-470K	47	1.0	7.0	.04	4.0	4.0
CTH8-560K	56	1.0	6.0	.04	3.6	3.2
CTH8-680K	68	1.0	5.0	.05	3.3	2.5
CTH8-820K	82	1.0	4.0	.06	3.1	2.0
CTH8-101K	100	1.0	3.0	.09	2.8	1.6
CTH8-121K	120	1.0	3.0	.11	2.5	1.6
CTH8-151K	150	1.0	3.0	.13	2.2	1.6
CTH8-181K	180	1.0	2.0	.15	2.0	1.6
CTH8-221K	220	1.0	2.0	.16	1.9	1.6
CTH8-271K	270	1.0	2.0	.21	1.6	1.6
CTH8-331K	330	1.0	2.0	.21	1.5	1.6
CTH8-391K	390	1.0	2.0	.28	1.4	1.6
CTH8-471K	470	1.0	1.0	.38	1.2	1.2
CTH8-561K	560	1.0	1.0	.42	1.2	1.0
CTH8-681K	680	1.0	1.0	.55	1.0	1.0
CTH8-821K	820	1.0	1.0	.66	.97	.80
CTH8-102K	1000	1.0	1.0	.84	.87	.80
CTH8-122K	1200	1.0	1.0	1.0	.79	.60
CTH8-152K	1500	1.0	.75	1.2	.70	.60
CTH8-182K	1800	1.0	.72	1.6	.64	.60
CTH8-222K	2200	1.0	.70	2.0	.58	.50
CTH8-272K	2700	1.0	.65	2.1	.53	.40
CTH8-332K	3300	1.0	.60	2.6	.47	.40
CTH8-392K	3900	1.0	.55	2.8	.43	.40
CTH8-472K	4700	1.0	.50	3.2	.39	.40
CTH8-562K	5600	1.0	.40	3.9	.36	.32
CTH8-682K	6800	1.0	.35	5.7	.32	.25
CTH8-822K	8200	1.0	.30	6.3	.29	.25
CTH8-103K	10000	1.0	.30	7.3	.26	.25
CTH8-123K	12000	1.0	.30	10	.26	.16
CTH8-153K	15000	1.0	.30	11	.23	.16
CTH8-183K	18000	1.0	.20	15	.21	.13
CTH8-223K	22000	1.0	.20	17	.19	.13
CTH8-273K	27000	1.0	.15	19	.17	.13
CTH8-333K	33000	1.0	.15	27	.15	.10
CTH8-393K	39000	1.0	.15	29	.14	.10
CTH8-473K	47000	1.0	.10	32	.13	.10
CTH8-563K	56000	1.0	.10	43	.12	.08
CTH8-683K	68000	1.0	.10	47	.11	.08
CTH8-823K	82000	1.0	.10	65	.10	.07
CTH8-104K	100000	1.0	.10	72	.10	.07

PHYSICAL DIMENSIONS

Size	A Max.	B Max.	C Typ.	20 AWG Nom.
mm	22.8	11.4	29.2	0.813
inches	0.9	0.45	1.15	0.03



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