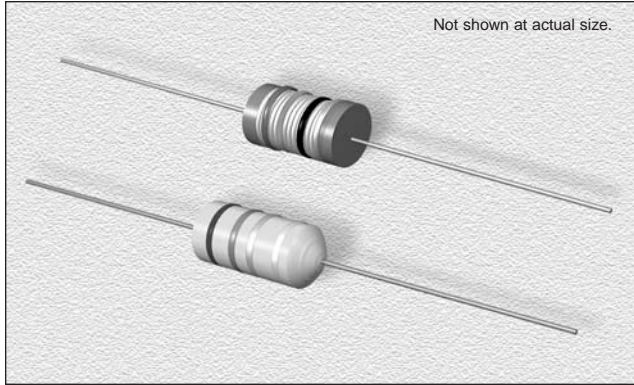


## CTH6 Series (Miniature)

### From 1.0 $\mu\text{H}$ to 10,000 $\mu\text{H}$



### CHARACTERISTICS

**Description:** Miniature axial leaded power line inductor

**Applications:** Step up or step down switching regulators, continuous voltage supplies, high voltage, line filtering, surge suppression, SCR and Triac controls and various applications

**Operating Temperature:** -55°C to +105°C

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

**Testing:** Inductance is tested on an HP4284A or HP4285A at specified frequency

**Packaging:** Bulk pack or Tape & Reel, 5,000 parts per reel

**Marking:** Parts are EIA color banded with inductance code

**Incremental Current:** Incremental (Incr) current is the minimum current at which the inductance will be decrease by 5%

**Coated:** Clear varnish coating or green epoxy conformal coating

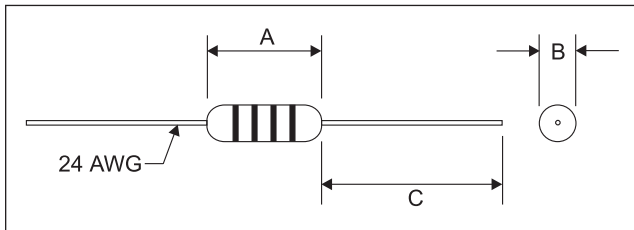
**Additional Information:** Additional electrical & physical information available upon request

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

### PHYSICAL DIMENSIONS

#### Green Epoxy Coated

Size	A Max.	B Max.	C Typ.	24 AWG Nom.
mm	12.7	4.06	25.4	0.511
inches	0.5	0.16	1	0.02



### SPECIFICATIONS

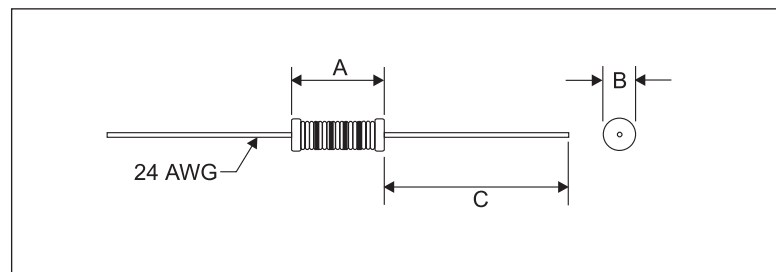
Please specify - CTH6E for Epoxy or CTH6V for Varnish  
Parts are marked to indicate tolerance available.  
K =  $\pm 10\%$

Part Number	Inductance ( $\mu\text{H}$ )	L Test Freq. (Hz)	SRF Min. (MHz)	DCR Max. ( $\Omega$ )	Incr (mA)	Rated DC (mA)
CTH6_-1R0K	1.0	7.9M	190	.02	3000	3300
CTH6_-1R2K	1.2	7.9M	170	.02	2700	3200
CTH6_-1R5K	1.5	7.9M	160	.02	2500	3100
CTH6_-1R8K	1.8	7.9M	150	.02	2100	2900
CTH6_-2R2K	2.2	7.9M	130	.03	2000	2600
CTH6_-2R7K	2.7	7.9M	120	.03	1900	2500
CTH6_-3R3K	3.3	7.9M	110	.05	1700	1900
CTH6_-3R9K	3.9	7.9M	100	.06	1500	1800
CTH6_-4R7K	4.7	7.9M	86	.07	1400	1700
CTH6_-5R6K	5.6	7.9M	64	.07	1300	1600
CTH6_-6R8K	6.8	7.9M	44	.08	1200	1600
CTH6_-8R2K	8.2	7.9M	32	.09	1100	1500
CTH6_-100K	10	1.0k	25	.10	970	1500
CTH6_-120K	12	1.0k	17	.11	880	1400
CTH6_-150K	15	1.0k	13	.15	790	1200
CTH6_-180K	18	1.0k	10	.16	710	1100
CTH6_-220K	22	1.0k	8.4	.19	640	1000
CTH6_-270K	27	1.0k	8.0	.22	580	950
CTH6_-330K	33	1.0k	7.6	.24	530	910
CTH6_-390K	39	1.0k	7.1	.26	480	880
CTH6_-470K	47	1.0k	6.0	.35	430	760
CTH6_-560K	56	1.0k	5.8	.47	400	650
CTH6_-680K	68	1.0k	4.3	.53	370	610
CTH6_-820K	82	1.0k	4.1	.60	330	580
CTH6_-101K	100	1.0k	3.9	.67	300	550
CTH6_-121K	120	1.0k	3.9	.90	270	470
CTH6_-151K	150	1.0k	3.2	1.2	250	410
CTH6_-181K	180	1.0k	2.8	1.4	220	380
CTH6_-221K	220	1.0k	2.3	1.9	200	320
CTH6_-271K	270	1.0k	2.1	2.1	180	310
CTH6_-331K	330	1.0k	1.9	2.4	170	290
CTH6_-391K	390	1.0k	1.7	3.0	150	260
CTH6_-471K	470	1.0k	1.4	3.4	140	240
CTH6_-561K	560	1.0k	1.3	4.7	130	210
CTH6_-681K	680	1.0k	1.2	6.4	110	180
CTH6_-821K	820	1.0k	1.1	7.1	100	170
CTH6_-102K	1000	1.0k	1.0	7.9	95	160
CTH6_-122K	1200	1.0k	.94	9.0	87	150
CTH6_-152K	1500	1.0k	.76	12	78	130
CTH6_-182K	1800	1.0k	.72	14	71	120
CTH6_-222K	2200	1.0k	.64	19	64	100
CTH6_-272K	2700	1.0k	.56	25	58	90
CTH6_-332K	3300	1.0k	.53	29	52	83
CTH6_-392K	3900	1.0k	.48	34	48	77
CTH6_-472K	4700	1.0k	.45	37	44	74
CTH6_-562K	5600	1.0k	.40	50	40	63
CTH6_-682K	6800	1.0k	.36	58	36	59
CTH6_-822K	8200	1.0k	.29	68	33	54
CTH6_-103K	10000	1.0k	.27	75	30	52

### PHYSICAL DIMENSIONS

#### Clear Varnish Coated

Size	A Max.	B Max.	C Typ.	24 AWG Nom.
mm	10	3.5	28	0.511
inches	0.4	0.14	1.1	0.02



12.14.01

Manufacturer of Inductors, Chokes, Coils, Beads, Transformers & Toroids

800-684-5322 Inside US 949-453-1811 Outside US

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