

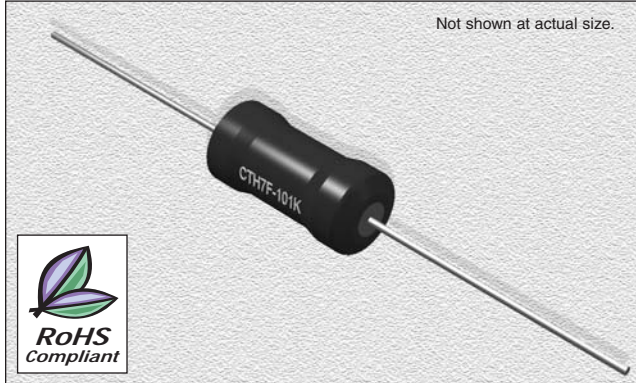
CTH7F Series

From 3.9 μH to 18,000 μH

SPECIFICATIONS

Part numbers indicate tolerance available..
K = $\pm 10\%$

ENGINEERING KIT #2



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 $+125^{\circ}\text{C}$

Inductance Tolerance: $\pm 10\%$

Testing: Inductance is tested on an HP4284A at 1.0 kHz

Packaging: Tape & Reel standard, bulk packaging available.

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

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

Saturation Current: Lowers inductance by 10%

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

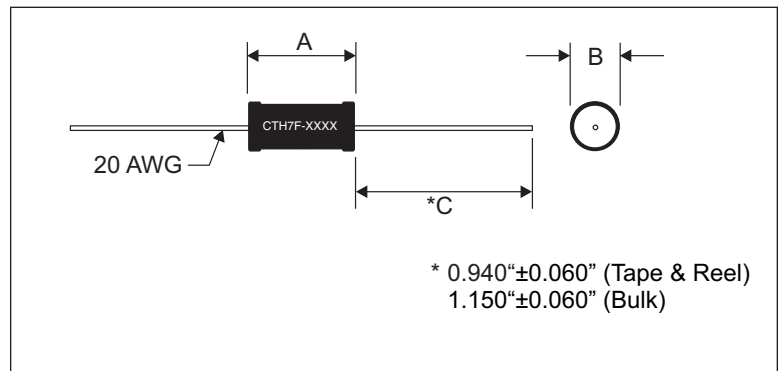
Additional Information: Additional electrical & physical information available upon request

Samples available. See website for ordering information.

| Part Number | Inductance (μH) | L Test Freq. (kHz) | SRF Min. (MHz) | DCR Max. (Ω) | Saturation DC (A) | Rated AC (A) |
|-------------|------------------------------|--------------------|----------------|-----------------------|-------------------|--------------|
| CTH7F-3R9K | 3.9 | 1.0 | 38 | .02 | 7.3 | 1.3 |
| CTH7F-4R7K | 4.7 | 1.0 | 26 | .02 | 6.3 | 1.3 |
| CTH7F-5R6K | 5.6 | 1.0 | 25 | .02 | 5.6 | 1.3 |
| CTH7F-6R8K | 6.8 | 1.0 | 25 | .03 | 5.3 | 1.3 |
| CTH7F-8R2K | 8.2 | 1.0 | 22 | .03 | 4.5 | 1.3 |
| CTH7F-100K | 10 | 1.0 | 17 | .03 | 4.1 | 1.3 |
| CTH7F-120K | 12 | 1.0 | 16 | .04 | 3.6 | 1.3 |
| CTH7F-150K | 15 | 1.0 | 12 | .04 | 3.3 | 1.3 |
| CTH7F-180K | 18 | 1.0 | 11 | .04 | 3.0 | 1.3 |
| CTH7F-220K | 22 | 1.0 | 10 | .05 | 2.7 | 1.3 |
| CTH7F-270K | 27 | 1.0 | 7.0 | .06 | 2.5 | 1.3 |
| CTH7F-330K | 33 | 1.0 | 7.0 | .08 | 2.2 | 1.0 |
| CTH7F-390K | 39 | 1.0 | 7.0 | .09 | 2.0 | .80 |
| CTH7F-470K | 47 | 1.0 | 6.0 | .11 | 1.8 | .80 |
| CTH7F-560K | 56 | 1.0 | 6.0 | .13 | 1.7 | .80 |
| CTH7F-680K | 68 | 1.0 | 7.0 | .14 | 1.5 | .80 |
| CTH7F-820K | 82 | 1.0 | 4.0 | .15 | 1.4 | .80 |
| CTH7F-101K | 100 | 1.0 | 3.0 | .21 | 1.2 | .63 |
| CTH7F-121K | 120 | 1.0 | 3.0 | .28 | 1.1 | .51 |
| CTH7F-151K | 150 | 1.0 | 3.0 | .34 | 1.0 | .51 |
| CTH7F-181K | 180 | 1.0 | 3.0 | .36 | .95 | .51 |
| CTH7F-221K | 220 | 1.0 | 3.0 | .43 | .86 | .51 |
| CTH7F-271K | 270 | 1.0 | 2.0 | .56 | .77 | .40 |
| CTH7F-331K | 330 | 1.0 | 2.0 | .67 | .70 | .40 |
| CTH7F-391K | 390 | 1.0 | 2.0 | .77 | .64 | .40 |
| CTH7F-471K | 470 | 1.0 | 2.0 | 1.2 | .59 | .32 |
| CTH7F-561K | 560 | 1.0 | 1.0 | 1.3 | .54 | .32 |
| CTH7F-681K | 680 | 1.0 | 1.0 | 1.6 | .49 | .25 |
| CTH7F-821K | 820 | 1.0 | 1.0 | 2.0 | .44 | .20 |
| CTH7F-102K | 1000 | 1.0 | 1.0 | 2.3 | .40 | .20 |
| CTH7F-122K | 1200 | 1.0 | 1.0 | 2.7 | .35 | .20 |
| CTH7F-152K | 1500 | 1.0 | .85 | 3.5 | .33 | .16 |
| CTH7F-182K | 1800 | 1.0 | .67 | 4.0 | .29 | .16 |
| CTH7F-222K | 2200 | 1.0 | .65 | 4.5 | .27 | .16 |
| CTH7F-272K | 2700 | 1.0 | .65 | 5.4 | .24 | .13 |
| CTH7F-332K | 3300 | 1.0 | .60 | 6.6 | .22 | .13 |
| CTH7F-392K | 3900 | 1.0 | .60 | 8.6 | .20 | .10 |
| CTH7F-472K | 4700 | 1.0 | .50 | 9.7 | .18 | .10 |
| CTH7F-562K | 5600 | 1.0 | .60 | 14 | .16 | .08 |
| CTH7F-682K | 6800 | 1.0 | .40 | 16 | .15 | .08 |
| CTH7F-822K | 8200 | 1.0 | .35 | 21 | .13 | .07 |
| CTH7F-103K | 10000 | 1.0 | .30 | 26 | .12 | .05 |
| CTH7F-123K | 12000 | 1.0 | .25 | 30 | .11 | .05 |
| CTH7F-153K | 15000 | 1.0 | .23 | 43 | .10 | .04 |
| CTH7F-183K | 18000 | 1.0 | .22 | 48 | .09 | .04 |

PHYSICAL DIMENSIONS

| Size | A Max. | B Max. | C | 20 AWG Nom. |
|--------|-----------|-----------|-------|----------------|
| mm | 15.3 | 7.37 | see | 0.813 |
| inches | 0.6 | 0.29 | below | 0.319 |



04.14.08