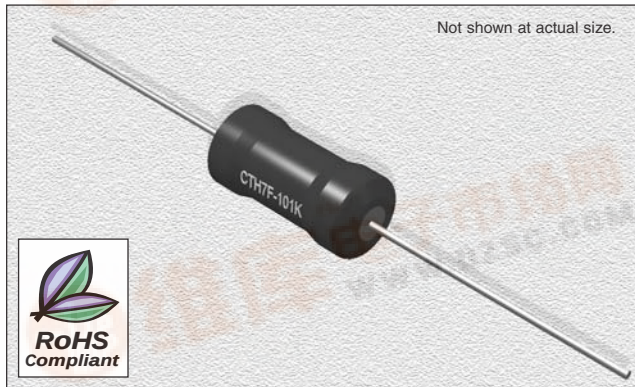


[查询"CTH7F-5R6K"供应商](#)

# CTH7F Series

From 3.9  $\mu\text{H}$  to 18,000  $\mu\text{H}$

## 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°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.**

## SPECIFICATIONS

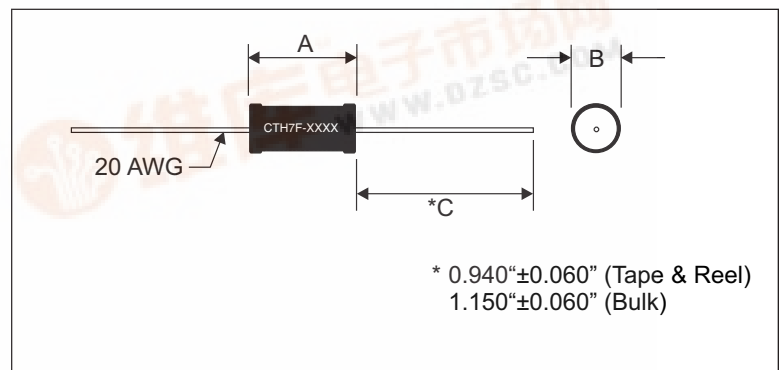
Part numbers indicate tolerance available..

K =  $\pm 10\%$

| Part Number | Inductance ( $\mu\text{H}$ ) | L Test Freq. (kHz) | SRF Min. (MHz) | DCR Max. ( $\Omega$ ) | 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<br>Max. | B<br>Max. | C     | 20 AWG<br>Nom. |
|--------|-----------|-----------|-------|----------------|
| mm     | 15.3      | 7.37      | see   | 0.813          |
| inches | 0.6       | 0.29      | below | 0.319          |



04.14.08

Manufacturer of Passive and Discrete Semiconductor Components

800-684-5322 Inside US

949-453-1811 Outside US

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