

## CTHCCI1210F Series

From .22µH to 10µH



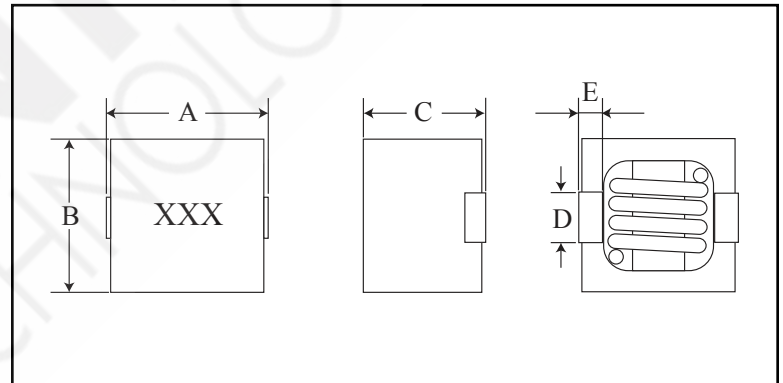
### SPECIFICATIONS

Parts are available in ±20% inductance tolerance only.  
 \*Isat for inductance drop 20% from its value without current.  
 \*\*Irms for 40°C temperature rise from 25°C ambient with current.

| Part Number      | Inductance (µH) | Test Freq. (kHz) | DCR Max. (mΩ) | *Isat Max. (A) | **Irms Max. (A) | Marking |
|------------------|-----------------|------------------|---------------|----------------|-----------------|---------|
| CTHCCH1210F-R22M | 0.22            | 100              | 1.5           | 55             | 37              | R22     |
| CTHCCH1210F-R33M | 0.33            | 100              | 1.5           | 45             | 37              | R33     |
| CTHCCH1210F-R47M | 0.47            | 100              | 1.8           | 45             | 35              | R47     |
| CTHCCH1210F-R56M | 0.56            | 100              | 1.8           | 35             | 35              | R56     |
| CTHCCH1210F-R68M | 0.68            | 100              | 1.8           | 33             | 35              | R68     |
| CTHCCH1210F-R82M | 0.82            | 100              | 2.4           | 31             | 30              | R82     |
| CTHCCH1210F-1R0M | 1.0             | 100              | 2.4           | 28             | 30              | 1R0     |
| CTHCCH1210F-1R5M | 1.5             | 100              | 3.5           | 24             | 25              | 1R5     |
| CTHCCH1210F-2R2M | 2.2             | 100              | 4.7           | 18             | 21              | 2R2     |
| CTHCCH1210F-3R3M | 3.3             | 100              | 6.3           | 14             | 15              | 3R3     |
| CTHCCH1210F-4R7M | 4.7             | 100              | 8.8           | 11             | 12              | 4R7     |
| CTHCCH1210F-6R8M | 6.8             | 100              | 12.5          | 9              | 10              | 6R8     |
| CTHCCH1210F-8R2M | 8.2             | 100              | 13.0          | 7              | 9               | 8R2     |
| CTHCCH1210F-100M | 10              | 100              | 18.7          | 6              | 8               | 100     |

### PHYSICAL DIMENSIONS

| Size   | A     | B     | C     | D           | E           |
|--------|-------|-------|-------|-------------|-------------|
|        | Max.  | Max.  | Max.  |             |             |
| mm     | 12.3  | 11.7  | 10.0  | 3.5±0.2     | 2.0±0.2     |
| inches | 0.484 | 0.461 | 0.394 | 0.138±0.008 | 0.079±0.008 |



### CHARACTERISTICS

**Description:** SMD shielded power inductors  
**Applications:** Graphic card, PC's, servers, and a variety of DC/DC converter applications  
**Operating Temperature:** -40°C to +125°C (including self-temperature rise)  
**Inductance Tolerance:** ±20%  
**Packaging:** Tape & Reel  
**Marking:** Parts are marked with inductance code  
**Miscellaneous:** RoHS Compliant  
**Additional Information:** Additional electrical & physical information available upon request.  
**Samples available. See website for ordering information.**

### PAD LAYOUT

