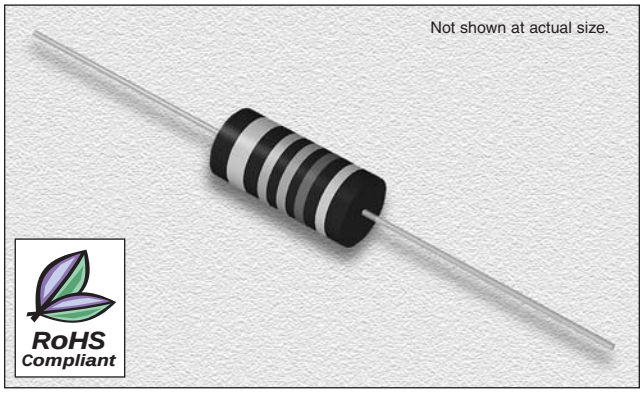
# CTM3F Series

## From .15 µH to 1,000 µH

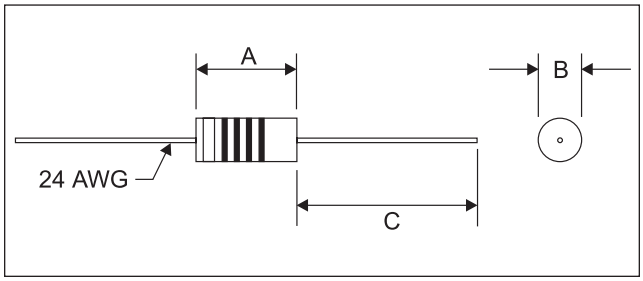



## CHARACTERISTICS

**Description:** Axial leaded molded inductor
**Applications:** Used for various kinds of OSC and TRAP coils. Ideal for various RF applications
**Operating Temperature:** -55°C to +125°C
**Inductance Tolerance:** ±5%, ±10% & ±20%
**Testing:** Inductance and Q are tested on an HP4285A at specified frequency
**Packaging:** Bulk pack or Tape & Reel, 2,500 parts per reel
**Marking:** Five band EIA color code indicating inductance code and tolerance
**Material:** Molded epoxy resin over coil
**Core:** Magnetic core (ferrite or iron) except for values .15 µH to 2.7 µH (phenolic)
**Miscellaneous:** RoHS Compliant.
**Additional Information:** Additional electrical & physical information available upon request
**Samples available. See website for ordering information.**

## PHYSICAL DIMENSIONS

| Size | A | B | C Typ. | 24 AWG Nom. |
|---|---|---|---|---|
| mm | 11.2±0.25 | 4.82±0.25 | 29.2 | 0.511 |
| inches | 0.44±0.01 | 0.19±0.01 | 1.15 | 0.02 |




## SPECIFICATIONS

**Please specify tolerance code when ordering.**
**CTM3F-R15_ ← J = ±5%, K = ±10%, M = ±20%**

| Part Number | Inductance (µH) | L Test Freq. (MHz) | Q Factor Min. | Q Test Freq. (MHz) | SRF Min. (MHz) | DCR Max. (Ω) | Rated DC (mA) |
|---|---|---|---|---|---|---|---|
| CTM3F-R15_ | .15 | 25 | 50 | 25 | 510 | .03 | 3050 |
| CTM3F-R22_ | .22 | 25 | 50 | 25 | 415 | .03 | 2800 |
| CTM3F-R27_ | .27 | 25 | 50 | 25 | 360 | .05 | 2400 |
| CTM3F-R33_ | .33 | 25 | 50 | 25 | 350 | .06 | 2000 |
| CTM3F-R47_ | .47 | 25 | 50 | 25 | 300 | .08 | 1700 |
| CTM3F-R56_ | .56 | 25 | 50 | 25 | 270 | .12 | 1450 |
| CTM3F-R68_ | .68 | 25 | 45 | 25 | 250 | .15 | 1300 |
| CTM3F-R82_ | .82 | 25 | 40 | 25 | 210 | .21 | 1100 |
| CTM3F-1R0_ | 1.0 | 25 | 40 | 25 | 200 | .29 | 930 |
| CTM3F-1R2_ | 1.2 | 7.9 | 30 | 7.9 | 180 | .40 | 785 |
| CTM3F-1R5_ | 1.5 | 7.9 | 30 | 7.9 | 170 | .49 | 700 |
| CTM3F-1R8_ | 1.8 | 7.9 | 30 | 7.9 | 150 | .74 | 550 |
| CTM3F-2R2_ | 2.2 | 7.9 | 30 | 7.9 | 140 | .97 | 505 |
| CTM3F-2R7_ | 2.7 | 7.9 | 30 | 7.9 | 120 | 1.2 | 460 |
| CTM3F-3R3_ | 3.3 | 7.9 | 30 | 7.9 | 70 | .14 | 990 |
| CTM3F-3R9_ | 3.9 | 7.9 | 30 | 7.9 | 65 | .15 | 870 |
| CTM3F-4R7_ | 4.7 | 7.9 | 30 | 7.9 | 60 | .21 | 745 |
| CTM3F-5R6_ | 5.6 | 7.9 | 30 | 7.9 | 50 | .28 | 645 |
| CTM3F-6R8_ | 6.8 | 7.9 | 30 | 7.9 | 50 | .37 | 560 |
| CTM3F-8R2_ | 8.2 | 7.9 | 30 | 7.9 | 48 | .44 | 540 |
| CTM3F-100_ | 10 | 7.9 | 30 | 7.9 | 42 | .61 | 440 |
| CTM3F-120_ | 12 | 2.5 | 50 | 2.5 | 36 | 1.1 | 370 |
| CTM3F-150_ | 15 | 2.5 | 55 | 2.5 | 30 | 1.2 | 310 |
| CTM3F-180_ | 18 | 2.5 | 60 | 2.5 | 30 | 2.0 | 255 |
| CTM3F-220_ | 22 | 2.5 | 60 | 2.5 | 24 | 2.2 | 240 |
| CTM3F-270_ | 27 | 2.5 | 65 | 2.5 | 22 | 2.8 | 205 |
| CTM3F-330_ | 33 | 2.5 | 55 | 2.5 | 18 | 2.3 | 300 |
| CTM3F-390_ | 39 | 2.5 | 55 | 2.5 | 16 | 2.5 | 285 |
| CTM3F-470_ | 47 | 2.5 | 55 | 2.5 | 14 | 3.4 | 245 |
| CTM3F-560_ | 56 | 2.5 | 55 | 2.5 | 14 | 4.1 | 225 |
| CTM3F-680_ | 68 | 2.5 | 55 | 2.5 | 11 | 4.2 | 220 |
| CTM3F-820_ | 82 | 2.5 | 55 | 2.5 | 9.3 | 4.4 | 215 |
| CTM3F-101_ | 100 | .79 | 45 | .79 | 8.5 | 4.9 | 205 |
| CTM3F-121_ | 120 | .79 | 60 | .79 | 7.3 | 5.4 | 195 |
| CTM3F-151_ | 150 | .79 | 60 | .79 | 6.2 | 6.2 | 180 |
| CTM3F-181_ | 180 | .79 | 60 | .79 | 5.7 | 7.1 | 170 |
| CTM3F-221_ | 220 | .79 | 60 | .79 | 5.2 | 7.9 | 160 |
| CTM3F-271_ | 270 | .79 | 65 | .79 | 5.6 | 8.2 | 110 |
| CTM3F-331_ | 330 | .79 | 65 | .79 | 5.0 | 9.1 | 105 |
| CTM3F-391_ | 390 | .79 | 65 | .79 | 4.5 | 10 | 100 |
| CTM3F-471_ | 470 | .79 | 65 | .79 | 4.0 | 11 | 95 |
| CTM3F-561_ | 560 | .79 | 65 | .79 | 3.8 | 12 | 91 |
| CTM3F-681_ | 680 | .79 | 60 | .79 | 3.4 | 14 | 85 |
| CTM3F-821_ | 820 | .79 | 60 | .79 | 3.1 | 15 | 81 |
| CTM3F-102_ | 1000 | .79 | 60 | .79 | 2.8 | 16 | 78 |



CENTRAL Technologies

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