

CTC1F Series

From 0.10µH to 1,000µH



CHARACTERISTICS

- Description:** Axial leaded conformal coated inductor
- Applications:** Used in less harsh environments. Ideal for less critical RFL/EMI 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, 1,000 parts per bag, Tape & Reel, 5,000 parts per reel
- Marking:** Parts are EIA color banded which indicates inductance value and tolerance.
- Material:** Epoxy resin over coil. Magnetic core (ferrite or iron) except for values .10µH to 1.0µH (phenolic)
- Miscellaneous:** **RoHS Compliant.** Other values available.
- Additional Information:** Additional electrical & physical information available upon request.
- Samples available. See website for ordering information.**

SPECIFICATIONS

Please specify inductance tolerance when ordering.
 CTC1F-R10 ← 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) |
|-------------|-----------------|--------------------|---------------|--------------------|----------------|--------------|---------------|
| CTC1F-R10_ | .10 | 25 | 40 | 25 | 680 | .08 | 1380 |
| CTC1F-R12_ | .12 | 25 | 40 | 25 | 640 | .09 | 1300 |
| CTC1F-R15_ | .15 | 25 | 38 | 25 | 600 | .10 | 1230 |
| CTC1F-R18_ | .18 | 25 | 38 | 25 | 550 | .12 | 1120 |
| CTC1F-R22_ | .22 | 25 | 33 | 25 | 510 | .14 | 1040 |
| CTC1F-R27_ | .27 | 25 | 33 | 25 | 430 | .16 | 975 |
| CTC1F-R33_ | .33 | 25 | 30 | 25 | 410 | .22 | 830 |
| CTC1F-R39_ | .39 | 25 | 30 | 25 | 365 | .30 | 710 |
| CTC1F-R47_ | .47 | 25 | 30 | 25 | 330 | .35 | 660 |
| CTC1F-R56_ | .56 | 25 | 30 | 25 | 300 | .50 | 550 |
| CTC1F-R68_ | .68 | 25 | 28 | 25 | 275 | .60 | 500 |
| CTC1F-R82_ | .82 | 25 | 28 | 25 | 250 | .85 | 420 |
| CTC1F-1R0_ | 1.0 | 25 | 25 | 25 | 230 | 1.0 | 390 |
| CTC1F-1R2_ | 1.2 | 7.9 | 25 | 7.9 | 150 | .18 | 620 |
| CTC1F-1R5_ | 1.5 | 7.9 | 28 | 7.9 | 140 | .22 | 560 |
| CTC1F-1R8_ | 1.8 | 7.9 | 30 | 7.9 | 125 | .30 | 480 |
| CTC1F-2R2_ | 2.2 | 7.9 | 30 | 7.9 | 115 | .40 | 415 |
| CTC1F-2R7_ | 2.7 | 7.9 | 37 | 7.9 | 100 | .55 | 355 |
| CTC1F-3R3_ | 3.3 | 7.9 | 45 | 7.9 | 90 | .90 | 285 |
| CTC1F-3R9_ | 3.9 | 7.9 | 45 | 7.9 | 80 | 1.0 | 263 |
| CTC1F-4R7_ | 4.7 | 7.9 | 45 | 7.9 | 75 | 1.2 | 239 |
| CTC1F-5R6_ | 5.6 | 7.9 | 50 | 7.9 | 65 | 1.8 | 195 |
| CTC1F-6R8_ | 6.8 | 7.9 | 50 | 7.9 | 60 | 2.0 | 185 |
| CTC1F-8R2_ | 8.2 | 7.9 | 55 | 7.9 | 55 | 2.7 | 160 |
| CTC1F-100_ | 10 | 7.9 | 55 | 7.9 | 50 | 3.3 | 144 |
| CTC1F-120_ | 12 | 2.5 | 45 | 2.5 | 40 | 2.7 | 144 |
| CTC1F-150_ | 15 | 2.5 | 45 | 2.5 | 35 | 2.8 | 144 |
| CTC1F-180_ | 18 | 2.5 | 50 | 2.5 | 30 | 3.1 | 144 |
| CTC1F-220_ | 22 | 2.5 | 50 | 2.5 | 25 | 3.3 | 144 |
| CTC1F-270_ | 27 | 2.5 | 50 | 2.5 | 20 | 3.5 | 140 |
| CTC1F-330_ | 33 | 2.5 | 45 | 2.5 | 24 | 3.4 | 130 |
| CTC1F-390_ | 39 | 2.5 | 45 | 2.5 | 22 | 3.6 | 125 |
| CTC1F-470_ | 47 | 2.5 | 45 | 2.5 | 20 | 4.5 | 110 |
| CTC1F-560_ | 56 | 2.5 | 45 | 2.5 | 18 | 5.7 | 100 |
| CTC1F-680_ | 68 | 2.5 | 50 | 2.5 | 15 | 6.7 | 92 |
| CTC1F-820_ | 82 | 2.5 | 50 | 2.5 | 14 | 7.3 | 88 |
| CTC1F-101_ | 100 | 2.5 | 50 | 2.5 | 13 | 8.0 | 84 |
| CTC1F-121_ | 120 | 0.79 | 30 | 0.79 | 12 | 13 | 68 |
| CTC1F-151_ | 150 | 0.79 | 30 | 0.79 | 11 | 15 | 61 |
| CTC1F-181_ | 180 | 0.79 | 30 | 0.79 | 10 | 17 | 57 |
| CTC1F-221_ | 220 | 0.79 | 30 | 0.79 | 9.0 | 21 | 52 |
| CTC1F-271_ | 270 | 0.79 | 30 | 0.79 | 8.0 | 25 | 47 |
| CTC1F-331_ | 330 | 0.79 | 30 | 0.79 | 7.0 | 28 | 45 |
| CTC1F-391_ | 390 | 0.79 | 30 | 0.79 | 6.5 | 35 | 40 |
| CTC1F-471_ | 470 | 0.79 | 30 | 0.79 | 6.0 | 42 | 38 |
| CTC1F-561_ | 560 | 0.79 | 30 | 0.79 | 5.0 | 46 | 35 |
| CTC1F-681_ | 680 | 0.79 | 30 | 0.79 | 4.2 | 60 | 30 |
| CTC1F-821_ | 820 | 0.79 | 30 | 0.79 | 3.8 | 65 | 28 |
| CTC1F-102_ | 1000 | 0.79 | 30 | 0.79 | 3.4 | 72 | 28 |

PHYSICAL DIMENSIONS

| Size | A Max. | B | C Typ. | 24 AWG Nom. |
|--------|--------|-----------|--------|-------------|
| mm | 6.22 | 2.3±0.25 | 26.7 | 0.5110 |
| inches | 0.245 | 0.09±0.01 | 1.05 | 0.02010 |

