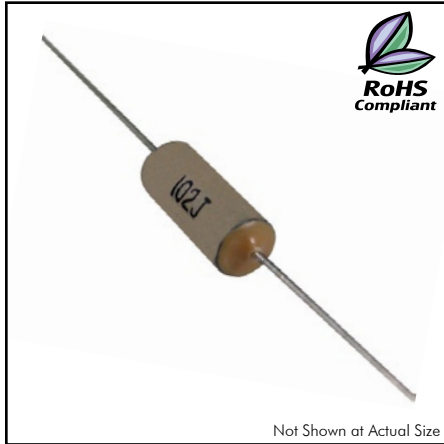


CTS4HTF Series

From .10 μH to 150,000 μH

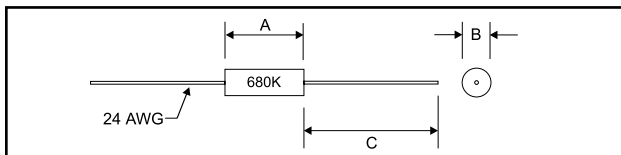


CHARACTERISTICS

- Description:** Axial leaded (shielded) inductor.
- Applications:** Used for high reliability applications. Vital for telecommunication applications. Ideal for various RF applications. Higher DC current than CTS3 series.
- Operating Temperature:** -55°C to 150°C
- Inductance Tolerance:** $\pm 5\%$ & $\pm 10\%$
- Testing:** Inductance and Q are tested on an HP4284A or HP4285A at specified frequency.
- Packaging:** Tape & Reel, 2,500 parts per reel.
- Marking:** EIA color banded with inductance code or marked with part value.
- Material:** Molded epoxy resin over the magnetic core for superior shielding and reliability.
- Incremental Current:** DC current required to cause a maximum reduction of 5% in inductance for nominal value of inductance measured with zero DC current.
- Shielding:** Less than 3% coupling units side by side @ 1KHz.
- Miscellaneous:** **RoHS Compliant.** Other values available.
- Additional Information:** Additional electrical & physical information available upon request.
- Samples available. See website for ordering information.**

PHYSICAL DIMENSIONS

| Size | A Max. | B Max. | C Typ. | 24 AWG Nom. |
|--------|-----------|-----------|-----------|----------------|
| mm | 11.4 | 4.06 | 29.2 | 0.511 |
| inches | 0.45 | 0.16 | 1.15 | 0.02 |



SPECIFICATIONS

Please specify tolerance code when ordering.
CTS4HTF-R10_ ← J = $\pm 5\%$, K = $\pm 10\%$

| Part Number | Inductance (μH) | L Test Freq. (Hz) | Q Fact. Min. | Q Test Freq. (MHz) | SRF Min. (MHz) | DCR Max. (Ω) | Rated DC (mA) | Incr (mA) |
|--------------|------------------------------|-------------------|--------------|--------------------|----------------|-----------------------|---------------|-----------|
| CTS4HTF-R10_ | .10 | 25M | 50 | 25 | 400 | .02 | 3000 | 3000 |
| CTS4HTF-R12_ | .12 | 25M | 50 | 25 | 400 | .03 | 2860 | 2860 |
| CTS4HTF-R15_ | .15 | 25M | 50 | 25 | 400 | .03 | 2600 | 2600 |
| CTS4HTF-R18_ | .18 | 25M | 50 | 25 | 400 | .04 | 2300 | 2300 |
| CTS4HTF-R22_ | .22 | 25M | 50 | 25 | 400 | .05 | 2050 | 2050 |
| CTS4HTF-R27_ | .27 | 25M | 50 | 25 | 400 | .09 | 1625 | 1625 |
| CTS4HTF-R33_ | .33 | 25M | 47 | 25 | 325 | .12 | 1400 | 1400 |
| CTS4HTF-R39_ | .39 | 25M | 47 | 25 | 390 | .16 | 1220 | 1200 |
| CTS4HTF-R47_ | .47 | 25M | 47 | 25 | 264 | .22 | 1060 | 1060 |
| CTS4HTF-R56_ | .56 | 25M | 45 | 25 | 249 | .29 | 900 | 900 |
| CTS4HTF-R68_ | .68 | 25M | 43 | 25 | 221 | .38 | 790 | 790 |
| CTS4HTF-R82_ | .82 | 25M | 41 | 25 | 200 | .45 | 725 | 725 |
| CTS4HTF-1R0_ | 1.0 | 25M | 42 | 25 | 156 | .05 | 2080 | 2080 |
| CTS4HTF-1R2_ | 1.2 | 7.9M | 43 | 7.9 | 144 | .07 | 1840 | 1840 |
| CTS4HTF-1R5_ | 1.5 | 7.9M | 41 | 7.9 | 128 | .09 | 1560 | 1560 |
| CTS4HTF-1R8_ | 1.8 | 7.9M | 42 | 7.9 | 121 | .11 | 1480 | 1480 |
| CTS4HTF-2R2_ | 2.2 | 7.9M | 42 | 7.9 | 108 | .14 | 1290 | 1290 |
| CTS4HTF-2R7_ | 2.7 | 7.9M | 41 | 7.9 | 96 | .18 | 1130 | 1130 |
| CTS4HTF-3R3_ | 3.3 | 7.9M | 41 | 7.9 | 88 | .26 | 950 | 950 |
| CTS4HTF-3R9_ | 3.9 | 7.9M | 41 | 7.9 | 84 | .35 | 815 | 815 |
| CTS4HTF-4R7_ | 4.7 | 7.9M | 42 | 7.9 | 72 | .47 | 710 | 710 |
| CTS4HTF-5R6_ | 5.6 | 7.9M | 42 | 7.9 | 69 | .51 | 680 | 680 |
| CTS4HTF-6R8_ | 6.8 | 7.9M | 42 | 7.9 | 62 | .75 | 560 | 560 |
| CTS4HTF-8R2_ | 8.2 | 7.9M | 46 | 7.9 | 58 | .83 | 535 | 535 |
| CTS4HTF-100_ | 10 | 7.9M | 46 | 7.9 | 53 | 1.3 | 432 | 432 |
| CTS4HTF-120_ | 12 | 2.5M | 50 | 2.5 | 47 | 1.7 | 368 | 368 |
| CTS4HTF-150_ | 15 | 2.5M | 50 | 2.5 | 41 | 2.3 | 325 | 325 |
| CTS4HTF-180_ | 18 | 2.5M | 50 | 2.5 | 43 | .67 | 596 | 235 |
| CTS4HTF-220_ | 22 | 2.5M | 50 | 2.5 | 38 | .74 | 565 | 220 |
| CTS4HTF-270_ | 27 | 1.0k | 50 | 2.5 | 36 | .85 | 526 | 200 |
| CTS4HTF-330_ | 33 | 1.0k | 50 | 2.5 | 33 | .93 | 505 | 190 |
| CTS4HTF-390_ | 39 | 1.0k | 50 | 2.5 | 29 | 1.3 | 429 | 180 |
| CTS4HTF-470_ | 47 | 1.0k | 55 | 2.5 | 27 | 1.5 | 400 | 175 |
| CTS4HTF-560_ | 56 | 1.0k | 55 | 2.5 | 25 | 1.6 | 380 | 160 |
| CTS4HTF-680_ | 68 | 1.0k | 55 | 2.5 | 23 | 2.2 | 328 | 150 |
| CTS4HTF-820_ | 82 | 1.0k | 55 | 2.5 | 14 | 1.9 | 349 | 140 |
| CTS4HTF-101_ | 100 | 1.0k | 65 | 2.5 | 12 | 2.3 | 322 | 120 |
| CTS4HTF-121_ | 120 | 1.0k | 65 | .79 | 11 | 2.4 | 311 | 95 |
| CTS4HTF-151_ | 150 | 1.0k | 65 | .79 | 11 | 2.8 | 294 | 90 |
| CTS4HTF-181_ | 180 | 1.0k | 65 | .79 | 10 | 3.1 | 277 | 85 |
| CTS4HTF-221_ | 220 | 1.0k | 65 | .79 | 9.4 | 3.5 | 251 | 80 |
| CTS4HTF-271_ | 270 | 1.0k | 65 | .79 | 8.0 | 4.5 | 231 | 70 |
| CTS4HTF-331_ | 330 | 1.0k | 65 | .79 | 7.3 | 5.1 | 215 | 65 |
| CTS4HTF-391_ | 390 | 1.0k | 65 | .79 | 6.9 | 5.6 | 205 | 60 |
| CTS4HTF-471_ | 470 | 1.0k | 70 | .79 | 6.5 | 6.4 | 192 | 58 |
| CTS4HTF-561_ | 560 | 1.0k | 70 | .79 | 6.0 | 8.0 | 174 | 55 |
| CTS4HTF-681_ | 680 | 1.0k | 75 | .79 | 5.6 | 8.8 | 163 | 50 |
| CTS4HTF-821_ | 820 | 1.0k | 70 | .79 | 4.8 | 10 | 151 | 45 |
| CTS4HTF-102_ | 1000 | 1.0k | 65 | .79 | 4.5 | 12 | 139 | 40 |
| CTS4HTF-122_ | 1200 | 1.0k | 70 | .25 | 2.6 | 15 | 125 | 35 |
| CTS4HTF-152_ | 1500 | 1.0k | 70 | .25 | 2.5 | 17 | 119 | 33 |
| CTS4HTF-182_ | 1800 | 1.0k | 70 | .25 | 2.3 | 19 | 111 | 30 |
| CTS4HTF-222_ | 2200 | 1.0k | 70 | .25 | 2.2 | 22 | 103 | 27 |
| CTS4HTF-272_ | 2700 | 1.0k | 70 | .25 | 2.1 | 25 | 97 | 25 |
| CTS4HTF-332_ | 3300 | 1.0k | 70 | .25 | 2.0 | 33 | 85 | 22 |
| CTS4HTF-392_ | 3900 | 1.0k | 70 | .25 | 1.8 | 37 | 80 | 20 |
| CTS4HTF-472_ | 4700 | 1.0k | 70 | .25 | 1.7 | 51 | 68 | 19 |
| CTS4HTF-562_ | 5600 | 1.0k | 70 | .25 | 1.6 | 54 | 66 | 17 |
| CTS4HTF-682_ | 6800 | 1.0k | 70 | .25 | 1.5 | 62 | 62 | 16 |
| CTS4HTF-822_ | 8200 | 1.0k | 70 | .25 | 1.4 | 86 | 52 | 15 |
| CTS4HTF-103_ | 10000 | 1.0k | 70 | .25 | 1.3 | 93 | 50 | 14 |
| CTS4HTF-123_ | 12000 | 1.0k | 50 | .25 | .88 | 84 | 53 | 13 |
| CTS4HTF-153_ | 15000 | 1.0k | 50 | .079 | .78 | 97 | 49 | 12 |
| CTS4HTF-183_ | 18000 | 1.0k | 50 | .079 | .72 | 104 | 48 | 10 |
| CTS4HTF-223_ | 22000 | 1.0k | 50 | .079 | .57 | 145 | 40 | 9.0 |
| CTS4HTF-273_ | 27000 | 1.0k | 50 | .079 | .46 | 195 | 34 | 8.0 |
| CTS4HTF-333_ | 33000 | 1.0k | 50 | .079 | .42 | 222 | 32 | 7.0 |
| CTS4HTF-393_ | 39000 | 1.0k | 50 | .079 | .42 | 242 | 31 | 6.0 |
| CTS4HTF-473_ | 47000 | 1.0k | 50 | .079 | .37 | 217 | 27 | 5.0 |
| CTS4HTF-563_ | 56000 | 1.0k | 50 | .079 | .36 | 362 | 25 | 5.0 |
| CTS4HTF-683_ | 68000 | 1.0k | 50 | .079 | .34 | 410 | 24 | 4.0 |
| CTS4HTF-823_ | 82000 | 1.0k | 50 | .079 | .33 | 440 | 23 | 3.0 |
| CTS4HTF-104_ | 100000 | 1.0k | 50 | .079 | .32 | 484 | 22 | 3.0 |
| CTS4HTF-154_ | 150000 | 25k | 30 | .025 | .18 | 560 | 15 | 3.0 |