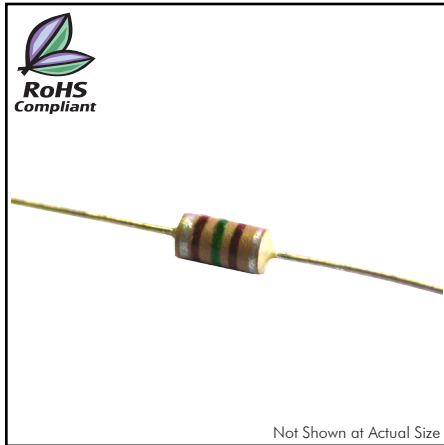


CTS1F Series

From .10 μ H to 1,000 μ H



SPECIFICATIONS

Please specify inductance tolerance when ordering.
CST1F-R10 ← J = ±5%, K = ±10%

| Part Number | Inductance (μ H) | L Test Freq. (MHz) | Q Factor Min. | Q Test Freq. (MHz) | SRF Min. (MHz) | DCR Max. (Ω) | Rated DC (mA) |
|-------------|-----------------------|--------------------|---------------|--------------------|----------------|-----------------------|---------------|
| CTS1F-R10_ | .10 | 25 | 39 | 25 | 400 | .071 | 1580 |
| CTS1F-R12_ | .12 | 25 | 36 | 25 | 400 | .087 | 1360 |
| CTS1F-R15_ | .15 | 25 | 35 | 25 | 400 | .109 | 1280 |
| CTS1F-R18_ | .18 | 25 | 33 | 25 | 400 | .145 | 1110 |
| CTS1F-R22_ | .22 | 25 | 35 | 25 | 400 | .165 | 1040 |
| CTS1F-R27_ | .27 | 25 | 33 | 25 | 400 | .192 | 965 |
| CTS1F-R33_ | .33 | 25 | 33 | 25 | 370 | .228 | 885 |
| CTS1F-R39_ | .39 | 25 | 32 | 25 | 348 | .259 | 830 |
| CTS1F-R47_ | .47 | 25 | 33 | 25 | 312 | .348 | 717 |
| CTS1F-R56_ | .56 | 25 | 30 | 25 | 286 | .417 | 655 |
| CTS1F-R68_ | .68 | 25 | 30 | 25 | 262 | .580 | 555 |
| CTS1F-R82_ | .82 | 25 | 33 | 25 | 188 | .132 | 1160 |
| CTS1F-1R0_ | 1.0 | 25 | 35 | 25 | 166 | .169 | 1030 |
| CTS1F-1R2_ | 1.2 | 7.9 | 29 | 7.9 | 149 | .184 | 985 |
| CTS1F-1R5_ | 1.5 | 7.9 | 29 | 7.9 | 136 | .26 | 825 |
| CTS1F-1R8_ | 1.8 | 7.9 | 29 | 7.9 | 118 | .36 | 705 |
| CTS1F-2R2_ | 2.2 | 7.9 | 28 | 7.9 | 110 | .41 | 665 |
| CTS1F-2R7_ | 2.7 | 7.9 | 32 | 7.9 | 94 | .55 | 577 |
| CTS1F-3R3_ | 3.3 | 7.9 | 32 | 7.9 | 86 | .62 | 540 |
| CTS1F-3R9_ | 3.9 | 7.9 | 38 | 7.9 | 85 | .79 | 475 |
| CTS1F-4R7_ | 4.7 | 7.9 | 38 | 7.9 | 79 | .91 | 445 |
| CTS1F-5R6_ | 5.6 | 7.9 | 40 | 7.9 | 72 | 1.15 | 395 |
| CTS1F-6R8_ | 6.8 | 7.9 | 46 | 7.9 | 65 | 1.73 | 320 |
| CTS1F-8R2_ | 8.2 | 7.9 | 45 | 7.9 | 59 | 1.96 | 302 |
| CTS1F-100_ | 10 | 7.9 | 45 | 7.9 | 53 | 2.3 | 280 |
| CTS1F-120_ | 12 | 2.5 | 40 | 2.5 | 60 | .55 | 570 |
| CTS1F-150_ | 15 | 2.5 | 45 | 2.5 | 53 | .71 | 500 |
| CTS1F-180_ | 18 | 2.5 | 45 | 2.5 | 45.8 | 1.0 | 423 |
| CTS1F-220_ | 22 | 2.5 | 45 | 2.5 | 42.2 | 1.09 | 404 |
| CTS1F-270_ | 27 | 2.5 | 48 | 2.5 | 31.0 | 1.35 | 364 |
| CTS1F-330_ | 33 | 2.5 | 54 | 2.5 | 26.0 | 1.9 | 305 |
| CTS1F-390_ | 39 | 2.5 | 54 | 2.5 | 24.2 | 2.1 | 293 |
| CTS1F-470_ | 47 | 2.5 | 54 | 2.5 | 22.0 | 2.4 | 271 |
| CTS1F-560_ | 56 | 2.5 | 60 | 2.5 | 21.2 | 2.9 | 248 |
| CTS1F-680_ | 68 | 2.5 | 55 | 2.5 | 19.9 | 3.2 | 237 |
| CTS1F-820_ | 82 | 2.5 | 57 | 2.5 | 16.8 | 3.7 | 219 |
| CTS1F-101_ | 100 | 2.5 | 60 | 2.5 | 13.2 | 4.6 | 198 |
| CTS1F-121_ | 120 | .79 | 58 | .79 | 11.0 | 5.2 | 184 |
| CTS1F-151_ | 150 | .79 | 60 | .79 | 9.1 | 5.9 | 173 |
| CTS1F-181_ | 180 | .79 | 60 | .79 | 7.4 | 7.4 | 156 |
| CTS1F-221_ | 220 | .79 | 60 | .79 | 7.2 | 8.5 | 145 |
| CTS1F-271_ | 270 | .79 | 60 | .79 | 6.8 | 10.0 | 133 |
| CTS1F-331_ | 330 | .79 | 60 | .79 | 5.5 | 13.4 | 115 |
| CTS1F-391_ | 390 | .79 | 60 | .79 | 5.1 | 15.0 | 109 |
| CTS1F-471_ | 470 | .79 | 60 | .79 | 5.0 | 21.0 | 92 |
| CTS1F-561_ | 560 | .79 | 60 | .79 | 4.9 | 23.0 | 88 |
| CTS1F-681_ | 680 | .79 | 60 | .79 | 4.6 | 26.0 | 82 |
| CTS1F-821_ | 820 | .79 | 60 | .79 | 4.2 | 34.0 | 72 |
| CTS1F-102_ | 1000 | .79 | 60 | .79 | 4.0 | 39.0 | 67 |

CHARACTERISTICS

Description: Axial leaded molded (shielded) inductor

Applications: Used for high reliability applications. Vital for telecommunication applications. Ideal for various RF applications

Operating Temperature: -55°C to +105°C

Inductance Tolerance: ±5% & ±10%

Testing: Inductance and Q are tested on a 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 code and tolerance

Material: Molded epoxy resin over the magnetic core for superior shielding and reliability

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 | B | C | 24 AWG |
|--------|------------|-------------|------|---------|
| mm | 6.60±0.25 | 2.80±0.25 | 29.2 | 0.5110 |
| inches | 0.26±0.010 | 0.110±0.010 | 1.15 | 0.02010 |

