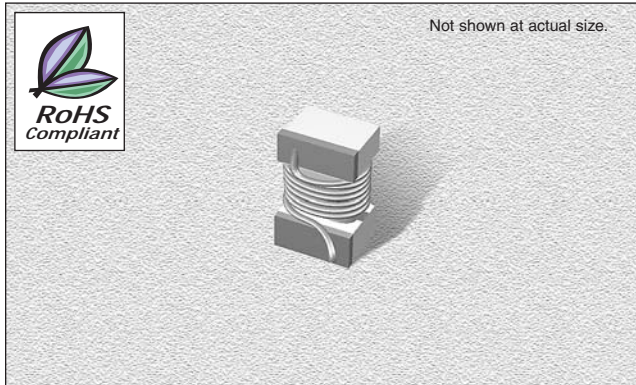


CT0402CSF Series

From 1.0 nH to 120 nH

ENGINEERING KIT #5F



CHARACTERISTICS

Description: SMD ceramic core wire-wound chip inductor

Applications: Telecommunication equipment, mobile phones, small size pagers, computers, printers and relevant equipment.

Also, audio & video applications, the automotive electronics industry and high frequency applications

Operating Temperature: -40°C to +125°C

Inductance Tolerance: ±2%, ±3%, ±5%, ±10%

Testing: Inductance and Q are tested on an HP4287A at 250 MHz

Packaging: Tape & Reel

Marking: Reels are marked with inductance code and tolerance

Additional Information: Additional electrical & physical information available upon request

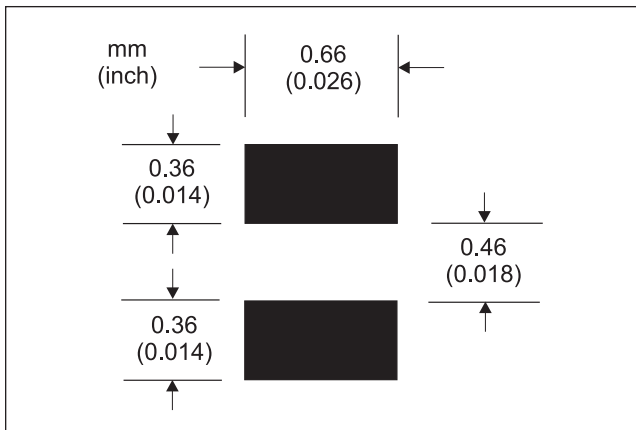
Samples available. See website for ordering information.

SPECIFICATIONS

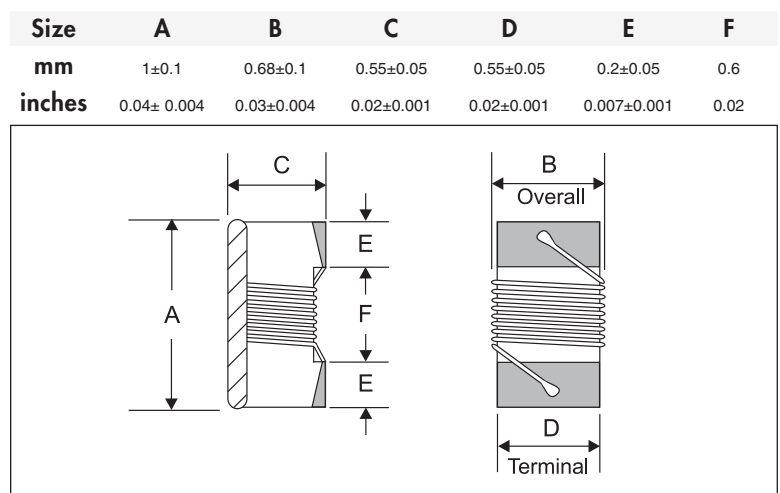
Please specify tolerance code when ordering.
 CT0402CS-2N0_ ← G = ±2%, H = ±3%, J = ±5%, K = ±10%
 * J or K only

| Part Number | Inductance (nH) | L Test Freq. (MHz) | Q Fact. Min. | Q Test Freq. (MHz) | SRF Min. (MHz) | DCR Max. (Ω) | Rated DC (mA) |
|-----------------|-----------------|--------------------|--------------|--------------------|----------------|--------------|---------------|
| CT0402CSF-1N0K | 1.0 | 250 | 13 | 250 | >6000 | .04 | 1000 |
| CT0402CSF-1N8K | 1.8 | 250 | 14 | 250 | >6000 | .07 | 1700 |
| CT0402CSF-1N9K | 1.9 | 250 | 16 | 250 | >6000 | .07 | 1040 |
| CT0402CSF-2N0_* | 2.0 | 250 | 16 | 250 | >6000 | .07 | 1040 |
| CT0402CSF-2N2_* | 2.2 | 250 | 16 | 250 | >6000 | .07 | 840 |
| CT0402CSF-2N4_* | 2.4 | 250 | 16 | 250 | >6000 | .07 | 840 |
| CT0402CSF-2N7_* | 2.7 | 250 | 16 | 250 | >6000 | .07 | 840 |
| CT0402CSF-3N3_* | 3.3 | 250 | 19 | 250 | >6000 | .06 | 840 |
| CT0402CSF-3N6_ | 3.6 | 250 | 19 | 250 | >6000 | .06 | 840 |
| CT0402CSF-3N9_ | 3.9 | 250 | 17 | 250 | 5800 | .11 | 800 |
| CT0402CSF-4N3_ | 4.3 | 250 | 18 | 250 | 5800 | .11 | 800 |
| CT0402CSF-4N7_ | 4.7 | 250 | 20 | 250 | 5800 | .11 | 800 |
| CT0402CSF-5N1_ | 5.1 | 250 | 21 | 250 | 5800 | .11 | 800 |
| CT0402CSF-5N6_ | 5.6 | 250 | 20 | 250 | 4800 | .08 | 760 |
| CT0402CSF-5N8_ | 5.8 | 250 | 20 | 250 | 4800 | .083 | 760 |
| CT0402CSF-6N2_ | 6.2 | 250 | 20 | 250 | 4800 | .08 | 760 |
| CT0402CSF-6N8_ | 6.8 | 250 | 23 | 250 | 4400 | .14 | 680 |
| CT0402CSF-7N5_ | 7.5 | 250 | 23 | 250 | 4400 | .14 | 680 |
| CT0402CSF-8N2_ | 8.2 | 250 | 24 | 250 | 4400 | .14 | 680 |
| CT0402CSF-8N7_ | 8.7 | 250 | 18 | 250 | 4100 | .20 | 480 |
| CT0402CSF-9N0_ | 9.0 | 250 | 22 | 250 | 4160 | .10 | 680 |
| CT0402CSF-9N5_ | 9.5 | 250 | 18 | 250 | 4000 | .20 | 480 |
| CT0402CSF-10N_ | 10 | 250 | 25 | 250 | 3700 | .18 | 600 |
| CT0402CSF-11N_ | 11 | 250 | 25 | 250 | 3700 | .18 | 600 |
| CT0402CSF-12N_ | 12 | 250 | 25 | 250 | 3600 | .18 | 600 |
| CT0402CSF-13N_ | 13 | 250 | 26 | 250 | 3600 | .18 | 600 |
| CT0402CSF-15N_ | 15 | 250 | 26 | 250 | 3200 | .21 | 560 |
| CT0402CSF-16N_ | 16 | 250 | 26 | 250 | 3200 | .21 | 560 |
| CT0402CSF-18N_ | 18 | 250 | 26 | 250 | 3000 | .25 | 480 |
| CT0402CSF-19N_ | 19 | 250 | 24 | 250 | 3040 | .20 | 480 |
| CT0402CSF-20N_ | 20 | 250 | 26 | 250 | 3000 | .25 | 480 |
| CT0402CSF-22N_ | 22 | 250 | 26 | 250 | 2700 | .36 | 375 |
| CT0402CSF-23N_ | 23 | 250 | 22 | 250 | 2720 | .30 | 400 |
| CT0402CSF-24N_ | 24 | 250 | 26 | 250 | 2700 | .36 | 375 |
| CT0402CSF-27N_ | 27 | 250 | 26 | 250 | 2500 | .36 | 375 |
| CT0402CSF-30N_ | 30 | 250 | 26 | 250 | 2200 | .41 | 320 |
| CT0402CSF-33N_ | 33 | 250 | 26 | 250 | 2200 | .41 | 320 |
| CT0402CSF-36N_ | 36 | 250 | 26 | 250 | 2200 | .46 | 310 |
| CT0402CSF-39N_ | 39 | 250 | 26 | 250 | 2200 | .46 | 310 |
| CT0402CSF-40N_ | 40 | 250 | 24 | 250 | 2240 | .44 | 320 |
| CT0402CSF-43N_ | 43 | 250 | 26 | 250 | 2100 | .50 | 300 |
| CT0402CSF-47N_ | 47 | 250 | 26 | 250 | 2000 | .55 | 260 |
| CT0402CSF-51N_ | 51 | 250 | 26 | 250 | 2000 | .55 | 260 |
| CT0402CSF-56N_ | 56 | 250 | 26 | 250 | 1900 | .77 | 200 |
| CT0402CSF-62N_ | 62 | 250 | 22 | 250 | 1620 | 1.12 | 100 |
| CT0402CSF-68N_ | 68 | 250 | 22 | 250 | 1620 | 1.1 | 100 |
| CT0402CSF-82N_* | 82 | 250 | 26 | 250 | 1700 | 1.33 | 180 |
| CT0402CSF-R10_* | 100 | 250 | 26 | 250 | 1300 | 1.87 | 160 |
| CT0402CSF-R12_* | 120 | 250 | 26 | 250 | 1200 | 2.35 | 140 |

PAD LAYOUT



PHYSICAL DIMENSIONS



09.02.08