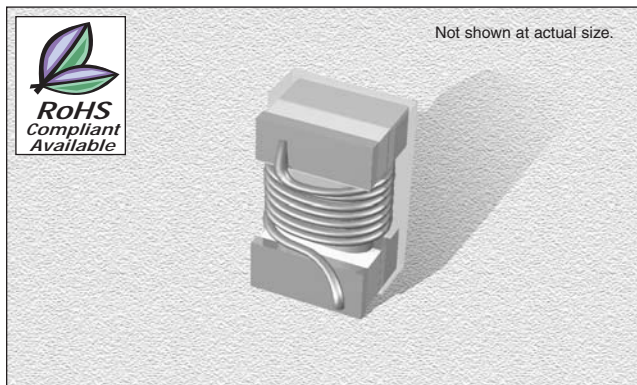


CT0603CS Series

From 1.6 nH to 390 nH

ENGINEERING KIT #5



CHARACTERISTICS

Description: SMD ceramic core wire-wound high current chip inductor

Applications: Telecommunication equipment, mobile phones, small size pagers, computers, printers and relevant equipment. Also, audio & video applications and the automotive electronics industry. High frequency applications

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

Inductance Tolerance: ±2%, ±5%, ±10%, ±20%

Testing: Inductance and Q are tested on an HP4287A at specified frequency

Packaging: Tape & Reel

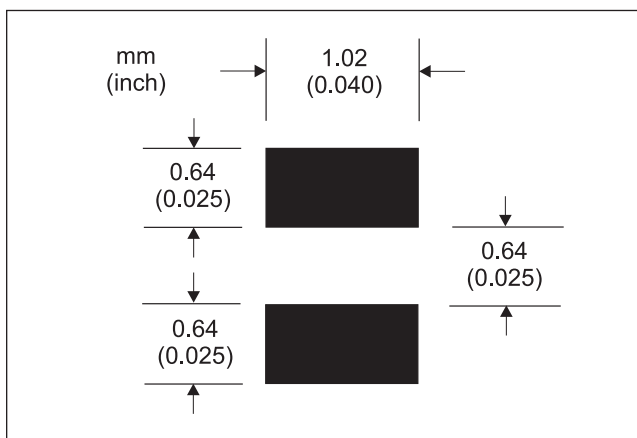
Marking: Reels are marked with inductance code and tolerance

Miscellaneous: RoHS Compliant available. Additional values available

Additional Information: Additional electrical & physical information available upon request

Samples available. See website for ordering information.

PAD LAYOUT



SPECIFICATIONS

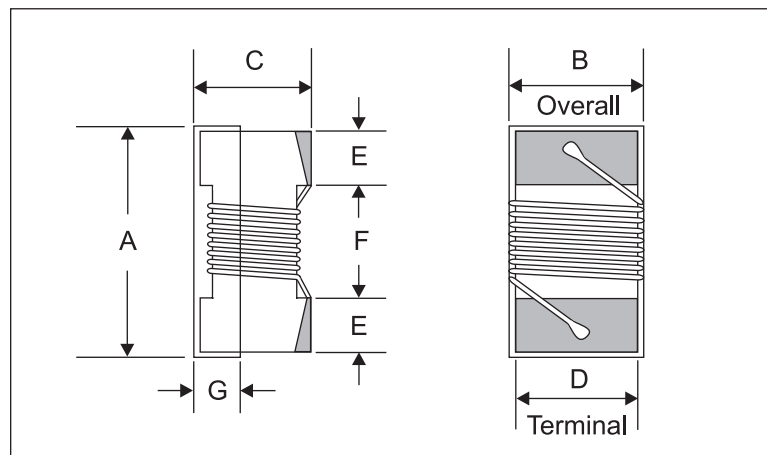
Please specify tolerance code when ordering.
 CT0603CS-1N6_ ← G = ±2%, J = ±5%, K = ±10%, M = ±20%
 * J, K or M only

CT0603CSE Please specify "F" for RoHS Compliant

| Part Number | Inductance (nH) | L Test Freq. (MHz) | Q Fact. Min. | Q Test Freq. (MHz) | SRF Min. (MHz) | DCR Max. (Ω) | Rated DC (mA) |
|-----------------|-----------------|--------------------|--------------|--------------------|----------------|--------------|---------------|
| CT0603CS_-1N6_* | 1.6 | 250 | 24 | 250 | 12500 | .03 | 700 |
| CT0603CS_-1N8_* | 1.8 | 250 | 16 | 250 | 12500 | .05 | 700 |
| CT0603CS_-3N6_ | 3.6 | 250 | 22 | 250 | 5900 | .06 | 700 |
| CT0603CS_-3N9_ | 3.9 | 250 | 22 | 250 | 6900 | .08 | 700 |
| CT0603CS_-4N3_ | 4.3 | 250 | 22 | 250 | 5900 | .06 | 700 |
| CT0603CS_-4N7_ | 4.7 | 250 | 20 | 250 | 5800 | .12 | 700 |
| CT0603CS_-5N1_ | 5.1 | 250 | 20 | 250 | 5700 | .14 | 700 |
| CT0603CS_-5N6_ | 5.6 | 250 | 20 | 250 | 5700 | .14 | 700 |
| CT0603CS_-6N3_ | 6.3 | 250 | 20 | 250 | 5700 | .14 | 700 |
| CT0603CS_-6N8_ | 6.8 | 250 | 27 | 250 | 5800 | .11 | 700 |
| CT0603CS_-7N5_ | 7.5 | 250 | 28 | 250 | 4800 | .11 | 700 |
| CT0603CS_-8N2_ | 8.2 | 250 | 28 | 250 | 4700 | .11 | 700 |
| CT0603CS_-8N7_ | 8.7 | 250 | 28 | 250 | 4600 | .11 | 700 |
| CT0603CS_-9N5_ | 9.5 | 250 | 28 | 250 | 5400 | .14 | 700 |
| CT0603CS_-10N_ | 10 | 250 | 31 | 250 | 4800 | .13 | 700 |
| CT0603CS_-11N_ | 11 | 250 | 33 | 250 | 4000 | .09 | 700 |
| CT0603CS_-12N_ | 12 | 250 | 35 | 250 | 4000 | .13 | 700 |
| CT0603CS_-15N_ | 15 | 250 | 35 | 250 | 4000 | .17 | 700 |
| CT0603CS_-16N_ | 16 | 250 | 34 | 250 | 3300 | .10 | 700 |
| CT0603CS_-18N_ | 18 | 250 | 35 | 250 | 3100 | .17 | 700 |
| CT0603CS_-22N_ | 22 | 250 | 38 | 250 | 3000 | .19 | 700 |
| CT0603CS_-23N_ | 23 | 250 | 38 | 250 | 2850 | .19 | 700 |
| CT0603CS_-24N_ | 24 | 250 | 37 | 250 | 2650 | .14 | 700 |
| CT0603CS_-27N_ | 27 | 250 | 40 | 250 | 2800 | .22 | 600 |
| CT0603CS_-30N_ | 30 | 250 | 37 | 250 | 2250 | .14 | 600 |
| CT0603CS_-33N_ | 33 | 250 | 40 | 250 | 2300 | .22 | 600 |
| CT0603CS_-36N_ | 36 | 250 | 38 | 250 | 2080 | .25 | 600 |
| CT0603CS_-39N_ | 39 | 250 | 40 | 250 | 2200 | .25 | 600 |
| CT0603CS_-43N_ | 43 | 250 | 39 | 250 | 2000 | .28 | 600 |
| CT0603CS_-47N_ | 47 | 200 | 38 | 200 | 2000 | .28 | 600 |
| CT0603CS_-56N_ | 56 | 200 | 38 | 200 | 1900 | .31 | 600 |
| CT0603CS_-68N_ | 68 | 200 | 37 | 200 | 1700 | .34 | 600 |
| CT0603CS_-72N_ | 72 | 150 | 34 | 150 | 1700 | .49 | 400 |
| CT0603CS_-82N_ | 82 | 150 | 34 | 150 | 1700 | .54 | 400 |
| CT0603CS_-R10_ | 100 | 150 | 34 | 150 | 1400 | .58 | 400 |
| CT0603CS_-R11_ | 110 | 150 | 32 | 150 | 1350 | .61 | 300 |
| CT0603CS_-R12_ | 120 | 150 | 32 | 150 | 1300 | .65 | 300 |
| CT0603CS_-R15_ | 150 | 150 | 28 | 150 | 990 | .92 | 280 |
| CT0603CS_-R18_ | 180 | 100 | 25 | 100 | 990 | 1.3 | 240 |
| CT0603CS_-R22_ | 220 | 100 | 25 | 100 | 900 | 1.9 | 200 |
| CT0603CS_-R27_ | 270 | 100 | 24 | 100 | 900 | 2.8 | 170 |
| CT0603CS_-R33_* | 330 | 100 | 25 | 100 | 900 | 3.9 | 100 |
| CT0603CS_-R39_* | 390 | 100 | 25 | 100 | 900 | 4.4 | 100 |

PHYSICAL DIMENSIONS

| Size | A Max. | B Max. | C Max. | D | E | F | G |
|--------|--------|--------|--------|------|-------|-------|-------|
| mm | 1.8 | 1.12 | 1.02 | 0.76 | 0.33 | 0.86 | 0.38 |
| inches | 0.07 | 0.044 | 0.04 | 0.03 | 0.013 | 0.034 | 0.015 |



01.14.05