

CS Series



Due to technical expertise of accurately winding skill, these chip inductors are designed as filtering, impedance matching, resonance and choke circuits for RF designer. The stand series as well as customer design to meet your needs of telecom & wireless products.

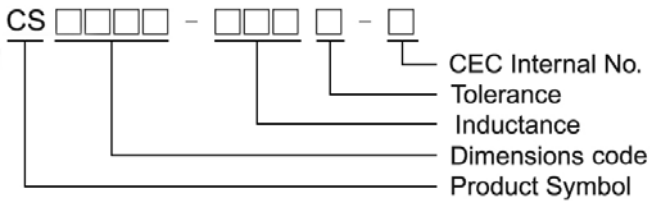
Features

- RoHS Compliant
- Ceramic body and wire wound construction provide high SRFs.
- These ultra – compact inductors provided exceptional Q values, even at high frequencies.
- Their ceramic construction delivers the highest possible SRFs as well as excellent Q values.
- The non-magnetic coil form also assures the utmost in thermal stability, predictability and batch consistency.
- CS series is standard parts for RF designers.

Applications

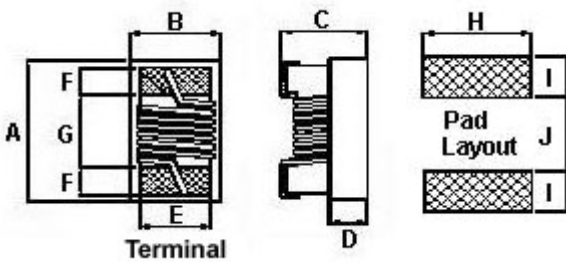
RF products for cellular phone, GPS receiver, Base Station, Repeater, Wireless LAN/ Mouse/ Keyboard/ earphone, remote control, security system and other RF modules.

Product Identification

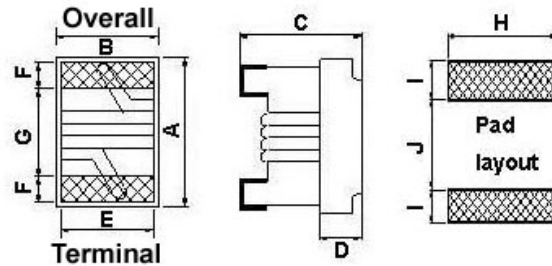


Shapes and Dimensions / Recommended Pattern

CS0402



CS0603/0805/1008



Dimensions

| | | A Max | B Max | C Max | D | E | F | G | H | I | J |
|--------|------|-------------------------------------|----------|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| CS0402 | inch | 0.047 | 0.028 | 0.026 | 0.010 | 0.020 | 0.009 | 0.022 | 0.026 | 0.014 | 0.018 |
| | mm | 1.19 | 0.70 | 0.66 | 0.25 | 0.51 | 0.23 | 0.56 | 0.66 | 0.36 | 0.46 |
| CS0805 | inch | 0.093 | 0.068 | 0.06 | 0.028 | 0.050 | 0.020 | 0.040 | 0.070 | 0.040 | 0.030 |
| | mm | 2.35 | 1.73 | 1.52 | 0.71 | 1.27 | 0.51 | 1.02 | 1.78 | 1.02 | 0.76 |
| CS1008 | inch | 0.115 | 0.110 | 0.083 | 0.046 | 0.080 | 0.020 | 0.060 | 0.100 | 0.040 | 0.050 |
| | mm | 2.92 | 2.79 | 2.1 | 1.16 | 2.03 | 0.51 | 1.52 | 2.54 | 1.02 | 1.27 |
| | | A | B | C | D | E | F | G | H | I | J |
| CS0603 | mm | 1.6 ^{+0.2} _{-0.1} | 1.02±0.1 | 0.82 ^{+0.2} _{-0.1} | 0.51 | 0.76 | 0.33 | 0.86 | 1.02 | 0.64 | 0.64 |

Electrical Characteristics

| Part Number | Inductance (nH) | Tolerance (±%) | Q Min | 900MHz | | 1.7GHz | | SRF (GHz) Min | Rdc (Ω) Max | Irms (mA) Max |
|---------------|-----------------|----------------|-------|--------|-------|--------|-------|---------------|-------------|---------------|
| | | | | L Typ | Q Typ | L Typ | Q Typ | | | |
| CS0402-1N0□-S | 1.0 | 10 / 5 | 16 | 1.02 | 77 | 1.02 | 69 | 12.70 | 0.045 | 1360 |
| CS0402-1N9□-S | 1.9 | 10 / 5 | 16 | 1.72 | 68 | 1.74 | 82 | 11.30 | 0.070 | 1040 |
| CS0402-2N0□-S | 2.0 | 10 / 5 | 16 | 1.93 | 54 | 1.93 | 75 | 11.10 | 0.070 | 1040 |
| CS0402-2N2□-S | 2.2 | 10 / 5 | 19 | 2.19 | 59 | 2.23 | 100 | 10.80 | 0.070 | 960 |
| CS0402-2N4□-S | 2.4 | 10 / 5 | 15 | 2.24 | 51 | 2.27 | 68 | 10.50 | 0.068 | 790 |
| CS0402-2N7□-S | 2.7 | 10 / 5 | 16 | 2.58 | 42 | 2.60 | 61 | 10.40 | 0.120 | 640 |
| CS0402-3N3□-S | 3.3 | 10 / 5 | 19 | 3.10 | 65 | 3.12 | 87 | 7.00 | 0.066 | 840 |
| CS0402-3N6□-S | 3.6 | 10 / 5 | 19 | 3.56 | 45 | 3.62 | 71 | 6.80 | 0.066 | 840 |
| CS0402-3N9□-S | 3.9 | 10 / 5 | 19 | 3.89 | 50 | 4.00 | 75 | 6.00 | 0.066 | 840 |
| CS0402-4N3□-S | 4.3 | 10 / 5 | 18 | 4.19 | 47 | 4.30 | 71 | 6.00 | 0.091 | 700 |
| CS0402-4N7□-S | 4.7 | 10 / 5 | 15 | 4.55 | 48 | 4.68 | 68 | 4.77 | 0.130 | 640 |
| CS0402-5N1□-S | 5.1 | 10 / 5 | 20 | 5.15 | 56 | 5.25 | 82 | 4.80 | 0.083 | 800 |
| CS0402-5N6□-S | 5.6 | 10 / 5 | 20 | 5.16 | 54 | 5.28 | 81 | 4.80 | 0.083 | 760 |
| CS0402-6N2□-S | 6.2 | 10 / 5 | 20 | 6.16 | 52 | 6.37 | 76 | 4.80 | 0.083 | 760 |
| CS0402-6N8□-S | 6.8 | 10 / 5 | 20 | 6.56 | 63 | 6.93 | 78 | 4.80 | 0.083 | 680 |
| CS0402-7N5□-S | 7.5 | 10 / 5 | 22 | 7.91 | 60 | 8.22 | 88 | 4.80 | 0.10 | 680 |
| CS0402-8N2□-S | 8.2 | 10 / 5 | 22 | 8.50 | 57 | 8.85 | 84 | 4.40 | 0.10 | 680 |
| CS0402-8N7□-S | 8.7 | 10 / 5 | 18 | 8.78 | 54 | 9.21 | 73 | 4.10 | 0.20 | 480 |
| CS0402-9N0□-S | 9.0 | 10 / 5 | 22 | 9.07 | 62 | 9.53 | 78 | 4.16 | 0.10 | 680 |
| CS0402-9N5□-S | 9.5 | 10 / 5 | 18 | 9.42 | 54 | 9.98 | 69 | 4.00 | 0.20 | 480 |
| CS0402-10N□-S | 10 | 10 / 5 | 21 | 9.8 | 50 | 10.10 | 67 | 3.90 | 0.20 | 480 |
| CS0402-11N□-S | 11 | 10 / 5 | 24 | 10.7 | 52 | 11.20 | 78 | 3.68 | 0.12 | 640 |
| CS0402-12N□-S | 12 | 10 / 5 | 24 | 11.9 | 53 | 12.70 | 71 | 3.60 | 0.12 | 640 |
| CS0402-13N□-S | 13 | 10 / 5 | 24 | 13.4 | 51 | 14.63 | 57 | 3.45 | 0.21 | 440 |
| CS0402-15N□-S | 15 | 10 / 5 | 24 | 14.6 | 55 | 15.50 | 77 | 3.28 | 0.17 | 560 |
| CS0402-16N□-S | 16 | 10 / 5 | 24 | 16.6 | 46 | 18.86 | 47 | 3.10 | 0.22 | 560 |
| CS0402-18N□-S | 18 | 10 / 5 | 25 | 18.3 | 57 | 20.28 | 62 | 3.10 | 0.23 | 420 |
| CS0402-19N□-S | 19 | 10 / 5 | 24 | 19.1 | 50 | 21.10 | 67 | 3.04 | 0.20 | 480 |
| CS0402-20N□-S | 20 | 10 / 5 | 25 | 20.7 | 52 | 23.66 | 53 | 3.00 | 0.25 | 420 |
| CS0402-22N□-S | 22 | 10 / 5 | 25 | 23.2 | 53 | 26.75 | 53 | 2.80 | 0.30 | 400 |
| CS0402-23N□-S | 23 | 10 / 5 | 22 | 23.8 | 49 | 26.90 | 64 | 2.72 | 0.30 | 400 |
| CS0402-24N□-S | 24 | 10 / 5 | 25 | 25.1 | 51 | 29.50 | 50 | 2.70 | 0.30 | 400 |
| CS0402-27N□-S | 27 | 10 / 5 | 24 | 28.7 | 49 | 33.50 | 63 | 2.48 | 0.30 | 400 |
| CS0402-30N□-S | 30 | 10 / 5 | 25 | 31.1 | 46 | 38.50 | 39 | 2.35 | 0.35 | 400 |
| CS0402-33N□-S | 33 | 10 / 5 | 24 | 34.9 | 31 | 41.74 | 32 | 2.35 | 0.40 | 400 |
| CS0402-36N□-S | 36 | 10 / 5 | 24 | 39.5 | 44 | 48.40 | 53 | 2.32 | 0.44 | 320 |
| CS0402-39N□-S | 39 | 10 / 5 | 25 | 41.7 | 47 | 50.23 | 45 | 2.10 | 0.55 | 200 |
| CS0402-40N□-S | 40 | 10 / 5 | 24 | 39.0 | 44 | 47.40 | 33 | 2.24 | 0.65 | 320 |
| CS0402-43N□-S | 43 | 10 / 5 | 25 | 45.8 | 46 | 61.55 | 34 | 2.03 | 0.81 | 100 |
| CS0402-47N□-S | 47 | 10 / 5 | 20 | 50.0 | 38 | - | - | 2.10 | 0.83 | 150 |
| CS0402-51N□-S | 51 | 10 / 5 | 25 | 56.6 | 40 | - | - | 1.75 | 0.82 | 100 |
| CS0402-56N□-S | 56 | 10 / 5 | 22 | 62.8 | 42 | - | - | 1.76 | 0.97 | 100 |
| CS0402-68N□-S | 68 | 10 / 5 | 22 | 78.2 | 36 | - | - | 1.62 | 1.12 | 100 |
| CS0402-82N□-S | 82 | 10 / 5 | 20 | - | - | - | - | 1.26 | 1.55 | 50 |
| CS0402-R10□-S | 100 | 10 / 5 | 20 | - | - | - | - | 1.16 | 2.00 | 30 |

- When ordering, please specify tolerance and packaging codes.
- Tolerance : J = ±5% , K = ±10%
- L , Q : Agilent/HP4291A+Agilent/HP16197A @250MHz
- SRF : Agilent/HP8753D / Agilent/HP8722ES
- Rdc : CH502BC/HP4338B
- Irms for a 15°C rise above 25°C ambient.

Electrical Characteristics

| Part Number | Inductance (nH) | Test Frequency (MHz) | Tolerance (±%) | Q Min | SRF (MHz) Min | Rdc (Ω) Max | I _{rms} (mA) Max | 900 MHz | | 1.7 GHz | | Color |
|---------------|-----------------|----------------------|----------------|-------|---------------|-------------|---------------------------|---------|-------|---------|-------|--------|
| | | | | | | | | L Typ | Q Typ | L Typ | Q Typ | |
| CS0603-1N6□-S | 1.6 | 250 | 10 / 5 | 24 | 12500 | 0.030 | 700 | 1.67 | 49 | 1.65 | 63 | Red |
| CS0603-1N8□-S | 1.8 | 250 | 10 / 5 | 16 | 12500 | 0.045 | 700 | 1.63 | 35 | 1.66 | 50 | Black |
| CS0603-3N6□-S | 3.6 | 250 | 10 / 5 | 22 | 5900 | 0.063 | 700 | 3.72 | 53 | 3.71 | 65 | Red |
| CS0603-3N9□-S | 3.9 | 250 | 10 / 5 | 22 | 6900 | 0.080 | 700 | 3.95 | 49 | 3.96 | 67 | Brown |
| CS0603-4N3□-S | 4.3 | 250 | 10 / 5 | 22 | 5900 | 0.063 | 700 | 4.32 | 50 | 4.33 | 70 | Orange |
| CS0603-4N7□-S | 4.7 | 250 | 10 / 5 | 20 | 5800 | 0.116 | 700 | 4.72 | 47 | 4.75 | 57 | Violet |
| CS0603-5N1□-S | 5.1 | 250 | 10 / 5 | 20 | 5700 | 0.140 | 700 | 4.93 | 47 | 4.95 | 56 | Green |
| CS0603-5N6□-S | 5.6 | 250 | 10 / 5 | 20 | 5800 | 0.170 | 700 | 5.53 | 56 | 5.86 | 77 | Yellow |
| CS0603-6N3□-S | 6.3 | 250 | 10 / 5 | 20 | 5700 | 0.140 | 700 | 5.50 | 47 | 6.10 | 60 | White |
| CS0603-6N8□-S | 6.8 | 250 | 10 / 5 | 27 | 5800 | 0.110 | 700 | 6.75 | 60 | 7.10 | 81 | Red |
| CS0603-7N5□-S | 7.5 | 250 | 10 / 5 | 28 | 4800 | 0.106 | 700 | 7.70 | 60 | 7.82 | 65 | Brown |
| CS0603-8N2□-S | 8.2 | 250 | 10 / 5 | 28 | 4700 | 0.109 | 700 | 8.30 | 60 | 8.50 | 60 | White |
| CS0603-8N7□-S | 8.7 | 250 | 10 / 5 | 28 | 4600 | 0.109 | 700 | 8.86 | 62 | 9.32 | 58 | Yellow |
| CS0603-9N5□-S | 9.5 | 250 | 10 / 5 | 28 | 5400 | 0.135 | 700 | 9.70 | 59 | 9.92 | 61 | Blue |
| CS0603-10N□-S | 10 | 250 | 10 / 5 / 2 | 31 | 4800 | 0.130 | 700 | 10.0 | 66 | 10.6 | 83 | Orange |
| CS0603-11N□-S | 11 | 250 | 10 / 5 / 2 | 33 | 4000 | 0.086 | 700 | 11.0 | 53 | 11.5 | 56 | Gray |
| CS0603-12N□-S | 12 | 250 | 10 / 5 / 2 | 35 | 4000 | 0.130 | 700 | 12.3 | 72 | 13.5 | 83 | Yellow |
| CS0603-15N□-S | 15 | 250 | 10 / 5 / 2 | 35 | 4000 | 0.170 | 700 | 15.4 | 64 | 16.8 | 89 | Green |
| CS0603-16N□-S | 16 | 250 | 10 / 5 / 2 | 34 | 3300 | 0.104 | 700 | 16.2 | 55 | 17.3 | 52 | White |
| CS0603-18N□-S | 18 | 250 | 10 / 5 / 2 | 35 | 3100 | 0.170 | 700 | 18.7 | 70 | 21.4 | 69 | Blue |
| CS0603-22N□-S | 22 | 250 | 10 / 5 / 2 | 38 | 3000 | 0.190 | 700 | 22.8 | 73 | 26.1 | 71 | Violet |
| CS0603-24N□-S | 24 | 250 | 10 / 5 / 2 | 37 | 2650 | 0.135 | 700 | 24.5 | 45 | 28.7 | 39 | Black |
| CS0603-27N□-S | 27 | 250 | 10 / 5 / 2 | 40 | 2800 | 0.220 | 600 | 29.2 | 74 | 34.6 | 65 | Gray |
| CS0603-30N□-S | 30 | 250 | 10 / 5 / 2 | 37 | 2250 | 0.144 | 600 | 31.4 | 47 | 39.9 | 28 | Brown |
| CS0603-33N□-S | 33 | 250 | 10 / 5 / 2 | 40 | 2300 | 0.220 | 600 | 36 | 67 | 49.5 | 42 | White |
| CS0603-36N□-S | 36 | 250 | 10 / 5 / 2 | 38 | 2080 | 0.250 | 600 | 39.4 | 47 | 52.7 | 24 | Red |
| CS0603-39N□-S | 39 | 250 | 10 / 5 / 2 | 40 | 2200 | 0.250 | 600 | 42.7 | 60 | 60.2 | 40 | Black |
| CS0603-43N□-S | 43 | 250 | 10 / 5 / 2 | 39 | 2000 | 0.280 | 600 | 47 | 44 | 64.9 | 21 | Orange |
| CS0603-47N□-S | 47 | 200 | 10 / 5 / 2 | 38 | 2000 | 0.280 | 600 | 52.2 | 62 | 77.2 | 35 | Brown |
| CS0603-56N□-S | 56 | 200 | 10 / 5 / 2 | 38 | 1900 | 0.310 | 600 | 62.5 | 56 | 97 | 26 | Red |
| CS0603-68N□-S | 68 | 200 | 10 / 5 / 2 | 37 | 1700 | 0.340 | 600 | 80.5 | 54 | 168 | 21 | Orange |
| CS0603-72N□-S | 72 | 150 | 10 / 5 / 2 | 34 | 1700 | 0.490 | 400 | 82 | 53 | 135 | 20 | Yellow |
| CS0603-82N□-S | 82 | 150 | 10 / 5 / 2 | 34 | 1700 | 0.540 | 400 | 96.2 | 54 | 177 | 21 | Green |
| CS0603-R10□-S | 100 | 150 | 10 / 5 / 2 | 34 | 1400 | 0.580 | 400 | 124 | 49 | - | - | Blue |
| CS0603-R11□-S | 110 | 150 | 10 / 5 / 2 | 32 | 1350 | 0.610 | 300 | 138 | 43 | - | - | Violet |
| CS0603-R12□-S | 120 | 150 | 10 / 5 / 2 | 32 | 1300 | 0.750 | 300 | 166 | 39 | - | - | Gray |
| CS0603-R15□-S | 150 | 150 | 10 / 5 / 2 | 28 | 990 | 0.920 | 280 | 250 | 25 | - | - | White |
| CS0603-R18□-S | 180 | 100 | 10 / 5 / 2 | 25 | 990 | 1.250 | 240 | 305 | 22 | - | - | Black |
| CS0603-R22□-S | 220 | 100 | 10 / 5 / 2 | 25 | 900 | 2.100 | 200 | - | - | - | - | Brown |
| CS0603-R27□-S | 270 | 100 | 10 / 5 / 2 | 24 | 900 | 2.800 | 170 | - | - | - | - | Red |
| CS0603-R33□-S | 330 | 100 | 10 / 5 / 2 | 25 | 900 | 3.890 | 100 | - | - | - | - | Orange |
| CS0603-R39□-S | 390 | 100 | 10 / 5 / 2 | 25 | 900 | 4.350 | 100 | - | - | - | - | Yellow |

- When ordering, please specify tolerance and packaging codes.
- Tolerance : G = ±2% , J = ±5% , K = ±10%
- Packaging: Clear tape and reel {standard}.
- L /Q: Agilent/HP4291A+ Agilent/HP16197A
- SRF: HP8753D/ HP4291A
- RDC: CH502BC/HP4338B
- I_{rms} for a 15°C rise above 25°C ambient.
- Operating temperature range from -40°C to 125°C . (Including self - temperature rise)

Electrical Characteristics

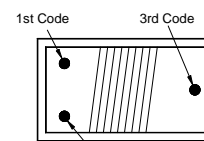
| Part Number | Inductance (nH) | Test Frequency (MHz) | Tolerance (±%) | Q Min | Test Frequency (MHz) | SRF (MHz) Min | Rdc (Ω) Max | Irms (mA) Max | Color |
|---------------|-----------------|----------------------|----------------|-------|----------------------|---------------|-------------|---------------|--------|
| CS0805-2N8□-S | 2.8 | 250 | 10 / 5 | 80 | 1500 | 7900 | 0.06 | 800 | Gray |
| CS0805-3N0□-S | 3.0 | 250 | 10 / 5 | 65 | 1500 | 7900 | 0.06 | 800 | White |
| CS0805-3N3□-S | 3.3 | 250 | 10 / 5 | 50 | 1500 | 7900 | 0.08 | 600 | Black |
| CS0805-5N6□-S | 5.6 | 250 | 10 / 5 | 65 | 1000 | 5500 | 0.08 | 600 | Orange |
| CS0805-6N8□-S | 6.8 | 250 | 10 / 5 | 50 | 1000 | 5500 | 0.11 | 600 | Brown |
| CS0805-7N5□-S | 7.5 | 250 | 10 / 5 | 50 | 1000 | 4500 | 0.14 | 600 | Green |
| CS0805-8N2□-S | 8.2 | 250 | 10 / 5 | 50 | 1000 | 4700 | 0.12 | 600 | Red |
| CS0805-10N□-S | 10 | 250 | 10 / 5 / 2 | 60 | 500 | 4200 | 0.10 | 600 | Blue |
| CS0805-12N□-S | 12 | 250 | 10 / 5 / 2 | 50 | 500 | 4000 | 0.15 | 600 | Orange |
| CS0805-15N□-S | 15 | 250 | 10 / 5 / 2 | 50 | 500 | 3400 | 0.17 | 600 | Yellow |
| CS0805-18N□-S | 18 | 250 | 10 / 5 / 2 | 50 | 500 | 3300 | 0.20 | 600 | Green |
| CS0805-22N□-S | 22 | 250 | 10 / 5 / 2 | 55 | 500 | 2600 | 0.22 | 500 | Blue |
| CS0805-24N□-S | 24 | 250 | 10 / 5 / 2 | 50 | 500 | 2000 | 0.22 | 500 | Gray |
| CS0805-27N□-S | 27 | 250 | 10 / 5 / 2 | 55 | 500 | 2500 | 0.25 | 500 | Violet |
| CS0805-33N□-S | 33 | 250 | 10 / 5 / 2 | 60 | 500 | 2050 | 0.27 | 500 | Gray |
| CS0805-36N□-S | 36 | 250 | 10 / 5 / 2 | 55 | 500 | 1700 | 0.27 | 500 | Orange |
| CS0805-39N□-S | 39 | 250 | 10 / 5 / 2 | 60 | 500 | 2000 | 0.29 | 500 | White |
| CS0805-43N□-S | 43 | 200 | 10 / 5 / 2 | 60 | 500 | 1650 | 0.34 | 500 | Yellow |
| CS0805-47N□-S | 47 | 200 | 10 / 5 / 2 | 60 | 500 | 1650 | 0.31 | 500 | Black |
| CS0805-56N□-S | 56 | 200 | 10 / 5 / 2 | 60 | 500 | 1550 | 0.34 | 500 | Brown |
| CS0805-68N□-S | 68 | 200 | 10 / 5 / 2 | 60 | 500 | 1450 | 0.38 | 500 | Red |
| CS0805-82N□-S | 82 | 150 | 10 / 5 / 2 | 65 | 500 | 1300 | 0.42 | 400 | Orange |
| CS0805-91N□-S | 91 | 150 | 10 / 5 / 2 | 65 | 500 | 1200 | 0.48 | 400 | Black |
| CS0805-R10□-S | 100 | 150 | 10 / 5 / 2 | 65 | 500 | 1200 | 0.46 | 400 | Yellow |
| CS0805-R11□-S | 110 | 150 | 10 / 5 / 2 | 50 | 250 | 1000 | 0.48 | 400 | Brown |
| CS0805-R12□-S | 120 | 150 | 10 / 5 / 2 | 50 | 250 | 1100 | 0.51 | 400 | Green |
| CS0805-R15□-S | 150 | 100 | 10 / 5 / 2 | 50 | 250 | 920 | 0.56 | 400 | Blue |
| CS0805-R18□-S | 180 | 100 | 10 / 5 / 2 | 50 | 250 | 870 | 0.64 | 400 | Violet |
| CS0805-R20□-S | 200 | 100 | 10 / 5 / 2 | 50 | 250 | 860 | 0.68 | 400 | Red |
| CS0805-R22□-S | 220 | 100 | 10 / 5 / 2 | 50 | 250 | 850 | 0.70 | 400 | Gray |
| CS0805-R24□-S | 240 | 100 | 10 / 5 / 2 | 44 | 250 | 690 | 1.00 | 350 | Red |
| CS0805-R25□-S | 250 | 100 | 10 / 5 / 2 | 45 | 250 | 660 | 1.20 | 350 | Yellow |
| CS0805-R27□-S | 270 | 100 | 10 / 5 / 2 | 48 | 250 | 650 | 1.00 | 350 | White |
| CS0805-R33□-S | 330 | 100 | 10 / 5 / 2 | 48 | 250 | 600 | 1.40 | 310 | Black |
| CS0805-R39□-S | 390 | 100 | 10 / 5 / 2 | 48 | 250 | 560 | 1.50 | 290 | Brown |
| CS0805-R47□-S | 470 | 50 | 10 / 5 / 2 | 33 | 100 | 375 | 1.76 | 250 | Violet |
| CS0805-R56□-S | 560 | 25 | 10 / 5 / 2 | 23 | 50 | 340 | 1.90 | 230 | Orange |
| CS0805-R62□-S | 620 | 25 | 10 / 5 / 2 | 23 | 50 | 220 | 2.20 | 210 | Yellow |
| CS0805-R68□-S | 680 | 25 | 10 / 5 / 2 | 23 | 50 | 188 | 2.20 | 190 | Green |
| CS0805-R82□-S | 820 | 25 | 10 / 5 / 2 | 23 | 50 | 215 | 2.35 | 180 | Blue |
| CS0805-1R0□-S | 1000 | 25 | 10 / 5 / 2 | 20 | 50 | 100 | 2.50 | 170 | Gray |
| CS0805-1R2□-S | 1200 | 7.9 | 10 / 5 / 2 | 18 | 25 | 100 | 2.50 | 170 | White |

- When ordering, please specify tolerance and packaging codes.
- Tolerance : G = ±2% , J = ±5% , K = ±10%
- L/Q: Agilent/HP4291A+Agilent/HP16197A
- SRF: Agilent/HP8753D / Agilent/HP4291A
- RDC: CH502BC/HP4338B
- I rms for a 15°C rise above 25°C ambient.
- Operating temperature range from -40°C to 125°C. (Including self - temperature rise)

Electrical Characteristics

| Part Number | Inductance (nH) | Test Frequency (MHz) | Tolerance (±%) | Q Min | Test Frequency (MHz) | SRF (MHz) Min | Rdc (Ω) Max | Irms (mA) Max | Color Coding | | |
|---------------|-----------------|----------------------|----------------|-------|----------------------|---------------|-------------|---------------|-----------------|-----------------|-----------------|
| | | | | | | | | | 1 ST | 2 ND | 3 RD |
| CS1008-10N□-S | 10 | 50 | 10 / 5 / 2 | 50 | 500 | 4100 | 0.08 | 1000 | Brown | Black | Black |
| CS1008-12N□-S | 12 | 50 | 10 / 5 / 2 | 50 | 500 | 3300 | 0.09 | 1000 | Brown | Red | Black |
| CS1008-15N□-S | 15 | 50 | 10 / 5 / 2 | 50 | 500 | 2500 | 0.10 | 1000 | Brown | Green | Black |
| CS1008-18N□-S | 18 | 50 | 10 / 5 / 2 | 50 | 350 | 2500 | 0.11 | 1000 | Brown | Gray | Black |
| CS1008-22N□-S | 22 | 50 | 10 / 5 / 2 | 55 | 350 | 2400 | 0.12 | 1000 | Red | Red | Black |
| CS1008-27N□-S | 27 | 50 | 10 / 5 / 2 | 55 | 350 | 1600 | 0.13 | 1000 | Red | Violet | Black |
| CS1008-33N□-S | 33 | 50 | 10 / 5 / 2 | 60 | 350 | 1600 | 0.14 | 1000 | Orange | Orange | Black |
| CS1008-39N□-S | 39 | 50 | 10 / 5 / 2 | 60 | 350 | 1500 | 0.15 | 1000 | Orange | White | Black |
| CS1008-47N□-S | 47 | 50 | 10 / 5 / 2 | 65 | 350 | 1500 | 0.16 | 1000 | Yellow | Violet | Black |
| CS1008-56N□-S | 56 | 50 | 10 / 5 / 2 | 65 | 350 | 1300 | 0.18 | 1000 | Green | Blue | Black |
| CS1008-68N□-S | 68 | 50 | 10 / 5 / 2 | 65 | 350 | 1300 | 0.20 | 1000 | Blue | Gray | Black |
| CS1008-82N□-S | 82 | 50 | 10 / 5 / 2 | 60 | 350 | 1000 | 0.22 | 1000 | Gray | Red | Black |
| CS1008-R10□-S | 100 | 25 | 10 / 5 / 2 | 60 | 350 | 1000 | 0.56 | 650 | Brown | Black | Brown |
| CS1008-R12□-S | 120 | 25 | 10 / 5 / 2 | 60 | 350 | 950 | 0.63 | 650 | Brown | Red | Brown |
| CS1008-R15□-S | 150 | 25 | 10 / 5 / 2 | 45 | 100 | 850 | 0.70 | 580 | Brown | Green | Brown |
| CS1008-R18□-S | 180 | 25 | 10 / 5 / 2 | 45 | 100 | 750 | 0.77 | 620 | Brown | Gray | Brown |
| CS1008-R22□-S | 220 | 25 | 10 / 5 / 2 | 45 | 100 | 700 | 0.84 | 500 | Red | Red | Brown |
| CS1008-R27□-S | 270 | 25 | 10 / 5 / 2 | 45 | 100 | 600 | 0.91 | 500 | Red | Violet | Brown |
| CS1008-R33□-S | 330 | 25 | 10 / 5 / 2 | 45 | 100 | 570 | 1.05 | 450 | Orange | Orange | Brown |
| CS1008-R39□-S | 390 | 25 | 10 / 5 / 2 | 45 | 100 | 500 | 1.12 | 470 | Orange | White | Brown |
| CS1008-R47□-S | 470 | 25 | 10 / 5 / 2 | 45 | 100 | 450 | 1.19 | 470 | Yellow | Violet | Brown |
| CS1008-R56□-S | 560 | 25 | 10 / 5 / 2 | 45 | 100 | 415 | 1.33 | 400 | Green | Blue | Brown |
| CS1008-R62□-S | 620 | 25 | 10 / 5 / 2 | 45 | 100 | 375 | 1.40 | 300 | Blue | Red | Brown |
| CS1008-R68□-S | 680 | 25 | 10 / 5 / 2 | 45 | 100 | 375 | 1.47 | 400 | Blue | Gray | Brown |
| CS1008-R75□-S | 750 | 25 | 10 / 5 / 2 | 45 | 100 | 360 | 1.54 | 360 | Violet | Green | Brown |
| CS1008-R82□-S | 820 | 25 | 10 / 5 / 2 | 45 | 100 | 350 | 1.61 | 400 | Gray | Red | Brown |
| CS1008-R91□-S | 910 | 25 | 10 / 5 / 2 | 35 | 50 | 320 | 1.68 | 380 | White | Brown | Brown |
| CS1008-1R0□-S | 1000 | 25 | 10 / 5 / 2 | 35 | 50 | 290 | 1.75 | 370 | Brown | Black | Red |
| CS1008-1R2□-S | 1200 | 7.9 | 10 / 5 / 2 | 35 | 50 | 250 | 2.0 | 310 | Brown | Red | Red |
| CS1008-1R5□-S | 1500 | 7.9 | 10 / 5 / 2 | 28 | 50 | 200 | 2.3 | 330 | Brown | Green | Red |
| CS1008-1R8□-S | 1800 | 7.9 | 10 / 5 / 2 | 28 | 50 | 160 | 2.6 | 300 | Brown | Gray | Red |
| CS1008-2R2□-S | 2200 | 7.9 | 10 / 5 / 2 | 28 | 50 | 160 | 2.8 | 280 | Red | Red | Red |
| CS1008-2R7□-S | 2700 | 7.9 | 10 / 5 / 2 | 22 | 25 | 140 | 3.2 | 290 | Red | Violet | Red |
| CS1008-3R3□-S | 3300 | 7.9 | 10 / 5 / 2 | 22 | 25 | 110 | 3.4 | 290 | Orange | Orange | Red |
| CS1008-3R9□-S | 3900 | 7.9 | 10 / 5 / 2 | 20 | 25 | 100 | 3.6 | 260 | Orange | White | Red |
| CS1008-4R7□-S | 4700 | 7.9 | 10 / 5 / 2 | 20 | 25 | 90 | 4.0 | 260 | Yellow | Violet | Red |
| CS1008-5R6□-S | 5600 | 7.9 | 10 / 5 / 2 | 18 | 7.9 | 45 | 4.0 | 240 | Green | Blue | Red |
| CS1008-6R8□-S | 6800 | 7.9 | 10 / 5 / 2 | 18 | 7.9 | 40 | 4.9 | 200 | Blue | Gray | Red |
| CS1008-8R2□-S | 8200 | 7.9 | 10 / 5 / 2 | 18 | 7.9 | 25 | 6.0 | 170 | Gray | Red | Red |
| CS1008-100□-S | 10000 | 2.52 | 10 / 5 / 2 | 18 | 7.9 | 25 | 8.0 | 150 | Brown | Black | Orange |

- When ordering, please specify tolerance and packaging codes.
- Tolerance : G = ±2% , J = ±5% , K = ±10%
- Packaging: Clear tape and reel {standard}
- L/Q: Agilent/HP4291A+ Agilent/HP16197A
- SRF: Agilent/HP8753D / Agilent/HP4291A
- RDC: CH502BC/HP4338B
- Irms for a 15°C rise above 25°C ambient.
- Operating temperature range from -40°C to 125°C . (Including self - temperature rise)
- Inductance would be correct Chilisin standard piece.

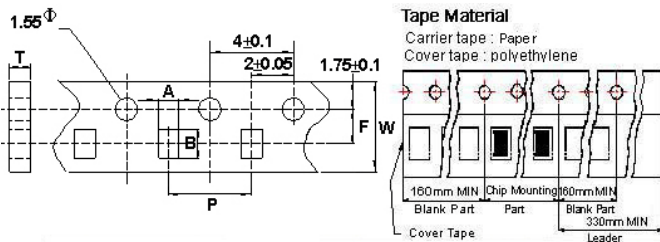


COLOR CODING

Packaging Specifications

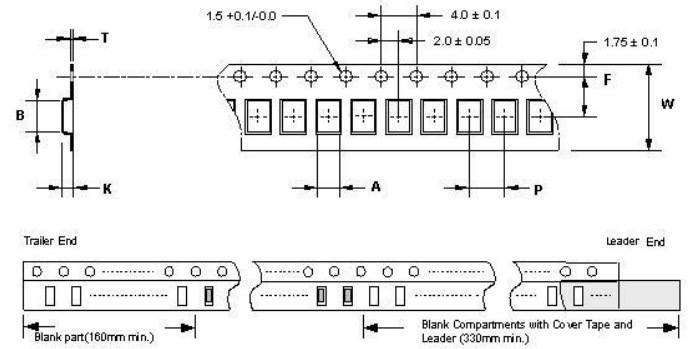
Tape Dimensions

Figure 1

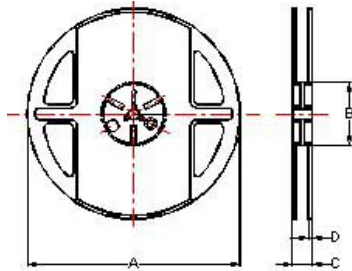


Tape Dimensions

Figure 2



Reel Dimensions



Dimensions in mm

| TYPE | Fig. | Tape Dimensions | | | | | | | Reel Dimensions | | | | Quantity PCS / Reel |
|--------|------|-----------------|------|------|---|---|-----|------|-----------------|----|----|-----|------------------------|
| | | A | B | T | W | P | F | K | A | B | C | D | |
| CS0402 | 1 | 0.75 | 1.23 | 0.53 | 8 | 2 | 3.5 | - | 178 | 60 | 12 | 1.5 | 4000 |
| CS0603 | 1 | 1.16 | 1.85 | 0.95 | 8 | 4 | 3.5 | - | 178 | 60 | 12 | 1.5 | 4000 |
| CS0805 | 2 | 1.85 | 2.45 | 0.23 | 8 | 4 | 3.5 | 1.45 | 178 | 60 | 12 | 1.5 | 2000 |
| CS1008 | 2 | 2.80 | 2.95 | 0.23 | 8 | 4 | 3.5 | 2.20 | 178 | 60 | 12 | 1.5 | 2000 |