

CS Series



Due to accurate wire winding technology, these chip inductors are designed for filtering, impedance matching, resonance and choke circuits for RF designer. Both standard series custom designs are available.

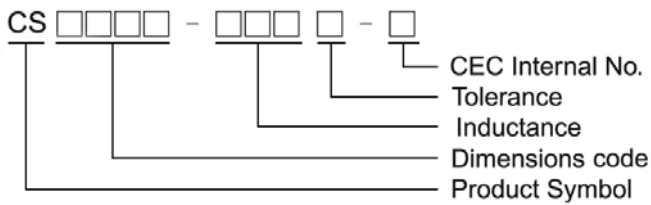
Features

- RoHS Compliant
- Ceramic body and wire wound construction provide high SRFs
- Exceptional Q values even at high frequencies
- Highest possible SRFs as well as excellent Q values
- The non-magnetic coil form assures utmost thermal stability, predictability and batch consistency
- CS series is standard 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

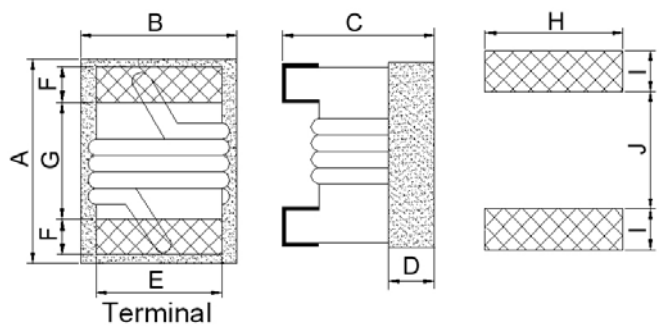
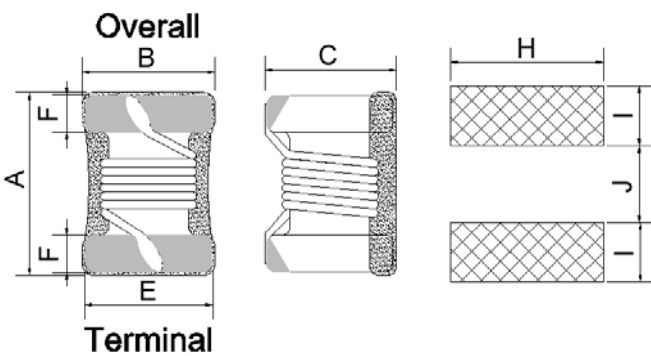
Product Identification



Shape and Dimensions / Recommended Pattern

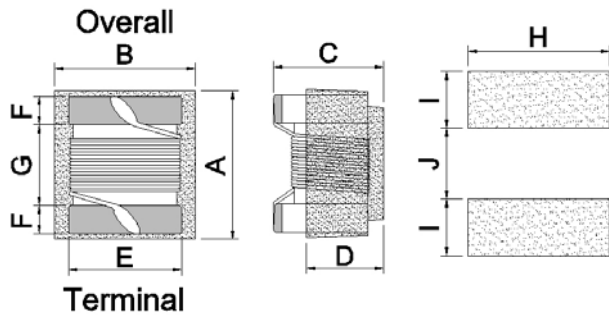
CS0201

CS0402

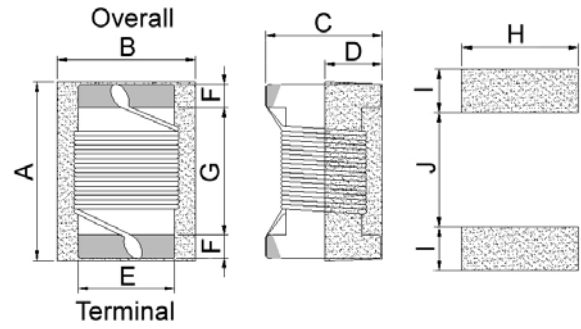


| | | A Max | B Max | C Max | D | E | F | G | H | I | J |
|--------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CS0201 | inch | 0.023 | 0.018 | 0.018 | - | 0.015 | 0.004 | - | 0.018 | 0.007 | 0.009 |
| | mm | 0.58 | 0.46 | 0.45 | - | 0.38 | 0.1 | - | 0.46 | 0.18 | 0.23 |
| 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 |

CS0603/0805/1008



CS1812



Dimensions

| | | 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 |
| | | A Max | B Max | C Max | D | E | F | G | H | I | J |
| CS0805 | inch | 0.093 | 0.068 | 0.06 | 0.028 | 0.05 | 0.02 | 0.04 | 0.07 | 0.04 | 0.03 |
| | 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 | 0.11 | 0.083 | 0.046 | 0.08 | 0.02 | 0.06 | 0.10 | 0.04 | 0.05 |
| | mm | 2.92 | 2.79 | 2.1 | 1.16 | 2.03 | 0.51 | 1.52 | 2.54 | 1.02 | 1.27 |
| CS1812 | inch | 0.197 | 0.154 | 0.135 | 0.07 | 0.1 | 0.025 | 0.128 | 0.12 | 0.045 | 0.118 |
| | mm | 4.95 | 3.81 | 3.43 | 1.78 | 2.54 | 0.64 | 3.25 | 3.05 | 1.14 | 3.00 |

Electrical Characteristics

| Part Number | Inductance (nH) | Tolerance (±%) | Test Frequency (MHz) | Q Min | SRF (GHz) Typ | RDC (Ω) Max | Irms (mA) Typ |
|---------------|--------------------|-------------------|----------------------------|----------|------------------|----------------|------------------|
| CS0201-0N5□-S | 0.5 | 10 | 250 | 4 | 23.5 | 0.02 | 1250 |
| CS0201-0N6□-S | 0.6 | 10 | 250 | 6 | 24.5 | 0.03 | 1000 |
| CS0201-1N2□-S | 1.2 | 5 | 250 | 13 | 17.9 | 0.042 | 870 |
| CS0201-1N3□-S | 1.3 | 5 | 250 | 11 | 17.6 | 0.048 | 820 |
| CS0201-1N4□-S | 1.4 | 5 | 250 | 14 | 17 | 0.08 | 630 |
| CS0201-1N5□-S | 1.5 | 5 | 250 | 11 | 17 | 0.09 | 600 |
| CS0201-2N2□-S | 2.2 | 5 | 250 | 15 | 16.7 | 0.07 | 700 |
| CS0201-2N3□-S | 2.3 | 5 | 250 | 18 | 16.5 | 0.07 | 670 |
| CS0201-2N4□-S | 2.4 | 5 | 250 | 13 | 13 | 0.082 | 620 |
| CS0201-2N5□-S | 2.5 | 5 | 250 | 16 | 12.5 | 0.165 | 440 |
| CS0201-3N3□-S | 3.3 | 5 | 250 | 14 | 12.8 | 0.08 | 630 |
| CS0201-3N4□-S | 3.4 | 5 | 250 | 11 | 12.7 | 0.08 | 630 |
| CS0201-3N5□-S | 3.5 | 5 | 250 | 16 | 12.4 | 0.08 | 630 |
| CS0201-3N6□-S | 3.6 | 5 | 250 | 18 | 12.5 | 0.105 | 550 |
| CS0201-3N7□-S | 3.7 | 5 | 250 | 15 | 10.6 | 0.105 | 550 |
| CS0201-3N8□-S | 3.8 | 5 | 250 | 16 | 10.2 | 0.18 | 420 |
| CS0201-3N9□-S | 3.9 | 5 | 250 | 12 | 11.2 | 0.24 | 360 |
| CS0201-4N8□-S | 4.8 | 5 | 250 | 17 | 11 | 0.096 | 570 |
| CS0201-4N9□-S | 4.9 | 5 | 250 | 18 | 11.7 | 0.13 | 510 |
| CS0201-5N0□-S | 5.0 | 5 | 250 | 18 | 11.5 | 0.13 | 510 |
| CS0201-5N1□-S | 5.1 | 5 | 250 | 18 | 11.1 | 0.13 | 510 |
| CS0201-5N2□-S | 5.2 | 5 | 250 | 18 | 10 | 0.17 | 430 |
| CS0201-5N3□-S | 5.3 | 5 | 250 | 18 | 10.6 | 0.13 | 510 |
| CS0201-5N4□-S | 5.4 | 5 | 250 | 18 | 10.2 | 0.13 | 510 |
| CS0201-5N5□-S | 5.5 | 5 | 250 | 16 | 9.5 | 0.285 | 330 |
| CS0201-6N7□-S | 6.7 | 5 | 250 | 18 | 6.8 | 0.15 | 460 |
| CS0201-6N8□-S | 6.8 | 5 | 250 | 18 | 9.5 | 0.15 | 460 |
| CS0201-6N9□-S | 6.9 | 5 | 250 | 18 | 9.3 | 0.15 | 460 |
| CS0201-7N0□-S | 7.0 | 5 | 250 | 18 | 6.7 | 0.21 | 390 |
| CS0201-7N1□-S | 7.1 | 5 | 250 | 18 | 9.5 | 0.25 | 390 |
| CS0201-7N2□-S | 7.2 | 5 | 250 | 18 | 9.4 | 0.25 | 390 |
| CS0201-7N3□-S | 7.3 | 5 | 250 | 18 | 9.3 | 0.25 | 390 |
| CS0201-7N4□-S | 7.4 | 5 | 250 | 18 | 9.1 | 0.25 | 390 |
| CS0201-7N5□-S | 7.5 | 5 | 250 | 15 | 6.8 | 0.34 | 300 |
| CS0201-7N6□-S | 7.6 | 5 | 250 | 17 | 9.3 | 0.3 | 340 |
| CS0201-7N7□-S | 7.7 | 5 | 250 | 17 | 9.2 | 0.3 | 340 |
| CS0201-7N8□-S | 7.8 | 5 | 250 | 17 | 9.2 | 0.3 | 340 |
| CS0201-7N9□-S | 7.9 | 5 | 250 | 17 | 9.1 | 0.3 | 340 |
| CS0201-8N0□-S | 8.0 | 5 | 250 | 17 | 9.2 | 0.3 | 340 |
| CS0201-8N1□-S | 8.1 | 5 | 250 | 17 | 9.1 | 0.3 | 340 |
| CS0201-8N2□-S | 8.2 | 5 | 250 | 17 | 6.4 | 0.27 | 340 |

Note: When ordering, please specify tolerance code. Tolerance : J=±5% , K=±10%

- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- I rms for a 15°C temperature rise from 25°C ambient with current
- Measure Equipment :
L & Q : HP4286A/HP4287A/AgilentE4991/Keysight E4982A
SRF : Agilent HP8753D/Agilent HP8722ES
RDC : HP4287A/Keysight E4982A
I rms : HP4284A+HP42841A/HP4285A+HP42841A

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without advance notice. Please contact our sales department before ordering.

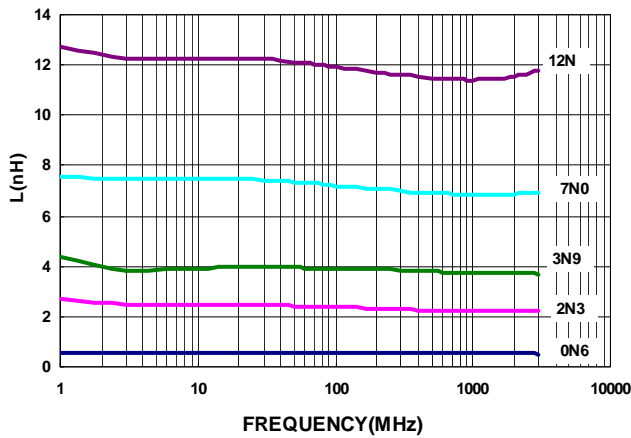
Electrical Characteristics

| Part Number | Inductance (nH) | Tolerance (±%) | Test Frequency (MHz) | Q Min | SRF (GHz) Typ | RDC (Ω) Max | Irms (mA) Typ |
|---------------|-----------------|----------------|----------------------|-------|---------------|-------------|---------------|
| CS0201-8N3□-S | 8.3 | 5 | 250 | 17 | 8.9 | 0.3 | 340 |
| CS0201-8N4□-S | 8.4 | 5 | 250 | 15 | 8.9 | 0.38 | 300 |
| CS0201-8N5□-S | 8.5 | 5 | 250 | 15 | 8.9 | 0.38 | 300 |
| CS0201-8N7□-S | 8.7 | 5 | 250 | 15 | 6.3 | 0.38 | 300 |
| CS0201-9N0□-S | 9.0 | 5 | 250 | 15 | 6.4 | 0.38 | 300 |
| CS0201-9N4□-S | 9.4 | 5 | 250 | 16 | 6.4 | 0.4 | 280 |
| CS0201-9N6□-S | 9.6 | 5 | 250 | 16 | 6.2 | 0.4 | 280 |
| CS0201-11N□-S | 11 | 5 | 250 | 16 | 5.7 | 0.44 | 280 |
| CS0201-12N□-S | 12 | 5 | 250 | 17 | 5.6 | 0.36 | 300 |
| CS0201-13N□-S | 13 | 5 | 250 | 16 | 6.7 | 0.5 | 270 |
| CS0201-14N□-S | 14 | 5 | 250 | 16 | 5.1 | 0.5 | 270 |

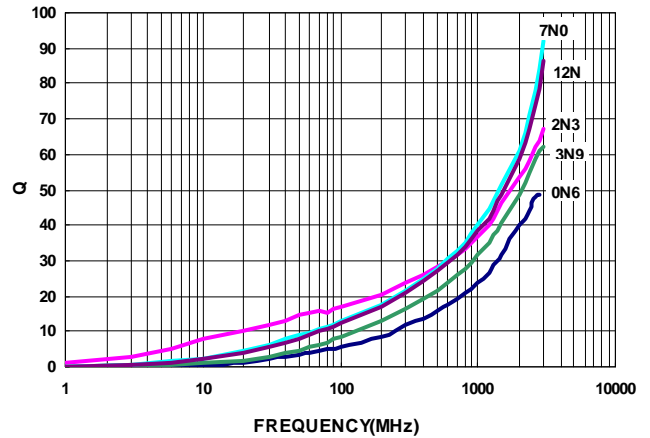
Note: When ordering, please specify tolerance code. Tolerance : J=±5% , K=±10%

- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Irms for a 15°C temperature rise from 25°C ambient with current
- Measure Equipment :
 L & Q : HP4286A/HP4287A/AgilentE4991/Keysight E4982A
 SRF : Agilent HP8753D/Agilent HP8722ES
 RDC : HP4287A/Keysight E4982A
 Irms : HP4284A+HP42841A/HP4285A+HP42841A

Typical **L** vs. **F** Frequency



Typical **Q** vs. **F** Frequency



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Electrical Characteristics

| Part Number | Inductance (nH) | Tolerance (±%) | Test Frequency (MHz) | Q Min | SRF (GHz) Min | RDC (Ω) Max | Irms (mA) Max |
|---------------|-----------------|-----------------|----------------------|-------|---------------|-------------|---------------|
| CS0402-1N0□-S | 1.0 | 10 / 5 / ±0.1nH | 250 | 16 | 12.7 | 0.045 | 1360 |
| CS0402-1N2□-S | 1.2 | 10 / 5 / ±0.1nH | 250 | 10 | 10.4 | 0.140 | 640 |
| CS0402-1N3□-S | 1.3 | 10 / ±0.1nH | 250 | 10 | 10.4 | 0.140 | 640 |
| CS0402-1N9□-S | 1.9 | 10 / 5 / ±0.1nH | 250 | 16 | 11.3 | 0.070 | 1040 |
| CS0402-2N0□-S | 2.0 | 10 / 5 / ±0.1nH | 250 | 16 | 11.1 | 0.070 | 1040 |
| CS0402-2N2□-S | 2.2 | 10 / 5 / ±0.1nH | 250 | 19 | 10.8 | 0.070 | 960 |
| CS0402-2N4□-S | 2.4 | 10 / 5 / ±0.1nH | 250 | 15 | 10.5 | 0.068 | 790 |
| CS0402-2N5□-S | 2.5 | 10 / 5 / ±0.1nH | 250 | 13 | 10.4 | 0.150 | 640 |
| CS0402-2N7□-S | 2.7 | 10 / 5 / ±0.1nH | 250 | 16 | 10.4 | 0.120 | 640 |
| CS0402-3N3□-S | 3.3 | 10 / 5 / 3 | 250 | 19 | 7.00 | 0.066 | 840 |
| CS0402-3N6□-S | 3.6 | 10 / 5 / 3 | 250 | 19 | 6.80 | 0.066 | 840 |
| CS0402-3N9□-S | 3.9 | 10 / 5 / 3 | 250 | 19 | 6.00 | 0.066 | 840 |
| CS0402-4N3□-S | 4.3 | 10 / 5 / 3 | 250 | 18 | 6.00 | 0.091 | 700 |
| CS0402-4N7□-S | 4.7 | 10 / 5 / 3 | 250 | 15 | 4.77 | 0.130 | 640 |
| CS0402-5N1□-S | 5.1 | 10 / 5 / 3 | 250 | 20 | 4.80 | 0.083 | 800 |
| CS0402-5N6□-S | 5.6 | 10 / 5 / 3 | 250 | 20 | 4.80 | 0.083 | 760 |
| CS0402-5N8□-S | 5.8 | 10 / 5 / 3 | 250 | 20 | 4.80 | 0.083 | 760 |
| CS0402-6N2□-S | 6.2 | 10 / 5 / 3 | 250 | 20 | 4.80 | 0.083 | 760 |
| CS0402-6N8□-S | 6.8 | 10 / 5 / 3 | 250 | 20 | 4.80 | 0.083 | 680 |
| CS0402-7N3□-S | 7.3 | 10 / 5 / 3 | 250 | 20 | 4.80 | 0.12 | 680 |
| CS0402-7N5□-S | 7.5 | 10 / 5 / 3 | 250 | 22 | 4.80 | 0.10 | 680 |
| CS0402-8N2□-S | 8.2 | 10 / 5 / 3 | 250 | 22 | 4.40 | 0.10 | 680 |
| CS0402-8N7□-S | 8.7 | 10 / 5 / 3 | 250 | 18 | 4.10 | 0.20 | 480 |
| CS0402-9N0□-S | 9.0 | 10 / 5 / 3 | 250 | 22 | 4.16 | 0.10 | 680 |
| CS0402-9N1□-S | 9.1 | 10 / 5 / 3 | 250 | 22 | 4.16 | 0.10 | 680 |
| CS0402-9N5□-S | 9.5 | 10 / 5 / 3 | 250 | 18 | 4.00 | 0.20 | 480 |
| CS0402-10N□-S | 10 | 10 / 5 / 3 / 2 | 250 | 21 | 3.90 | 0.20 | 480 |
| CS0402-11N□-S | 11 | 10 / 5 / 3 / 2 | 250 | 24 | 3.68 | 0.12 | 640 |
| CS0402-12N□-S | 12 | 10 / 5 / 3 / 2 | 250 | 24 | 3.60 | 0.12 | 640 |
| CS0402-13N□-S | 13 | 10 / 5 / 3 / 2 | 250 | 24 | 3.45 | 0.21 | 440 |
| CS0402-15N□-S | 15 | 10 / 5 / 3 / 2 | 250 | 24 | 3.28 | 0.17 | 560 |
| CS0402-16N□-S | 16 | 10 / 5 / 3 / 2 | 250 | 24 | 3.10 | 0.22 | 560 |
| CS0402-18N□-S | 18 | 10 / 5 / 3 / 2 | 250 | 25 | 3.10 | 0.23 | 420 |
| CS0402-19N□-S | 19 | 10 / 5 / 3 / 2 | 250 | 24 | 3.04 | 0.20 | 480 |
| CS0402-20N□-S | 20 | 10 / 5 / 3 / 2 | 250 | 25 | 3.00 | 0.25 | 420 |
| CS0402-22N□-S | 22 | 10 / 5 / 3 / 2 | 250 | 25 | 2.80 | 0.30 | 400 |
| CS0402-23N□-S | 23 | 10 / 5 / 3 / 2 | 250 | 22 | 2.72 | 0.30 | 400 |
| CS0402-24N□-S | 24 | 10 / 5 / 3 / 2 | 250 | 25 | 2.70 | 0.30 | 400 |
| CS0402-27N□-S | 27 | 10 / 5 / 3 / 2 | 250 | 24 | 2.48 | 0.30 | 400 |
| CS0402-30N□-S | 30 | 10 / 5 / 3 / 2 | 250 | 25 | 2.35 | 0.35 | 400 |

Note: When ordering, please specify tolerance code. Tolerance : B=±0.1nH , G=±2% , H=±3% , J=±5% , K=±10%

- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Irms for a 15°C temperature rise from 25°C ambient with current
- Measure Equipment :
 L & Q : Agilent E4991A+Agilent HP16197A
 SRF : Agilent HP8753D/Agilent HP8722ES
 RDC : HP4287A
 Irms : HP4284A+HP42841A/HP4285A+HP42841A

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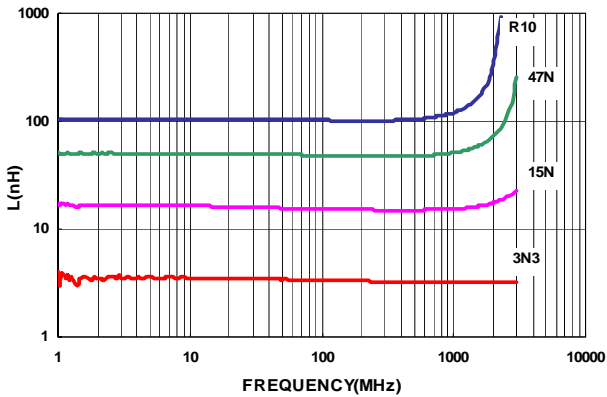
Electrical Characteristics

| Part Number | Inductance (nH) | Tolerance (±%) | Test Frequency (MHz) | Q Min | SRF (GHz) Min | RDC (Ω) Max | Irms (mA) Max |
|---------------|-----------------|----------------|----------------------|-------|---------------|-------------|---------------|
| CS0402-33N□-S | 33 | 10 / 5 / 3 / 2 | 250 | 24 | 2.35 | 0.40 | 400 |
| CS0402-36N□-S | 36 | 10 / 5 / 3 / 2 | 250 | 24 | 2.32 | 0.44 | 320 |
| CS0402-39N□-S | 39 | 10 / 5 / 3 / 2 | 250 | 25 | 2.10 | 0.55 | 200 |
| CS0402-40N□-S | 40 | 10 / 5 / 3 / 2 | 250 | 24 | 2.24 | 0.65 | 320 |
| CS0402-43N□-S | 43 | 10 / 5 / 3 / 2 | 250 | 25 | 2.03 | 0.81 | 100 |
| CS0402-47N□-S | 47 | 10 / 5 / 3 / 2 | 250 | 20 | 2.10 | 0.83 | 150 |
| CS0402-51N□-S | 51 | 10 / 5 / 3 / 2 | 250 | 25 | 1.75 | 0.82 | 100 |
| CS0402-56N□-S | 56 | 10 / 5 / 3 / 2 | 250 | 22 | 1.76 | 0.97 | 100 |
| CS0402-68N□-S | 68 | 10 / 5 / 3 / 2 | 250 | 22 | 1.62 | 1.12 | 100 |
| CS0402-82N□-S | 82 | 10 / 5 / 3 / 2 | 250 | 20 | 1.26 | 1.55 | 50 |
| CS0402-R10□-S | 100 | 10 / 5 / 3 / 2 | 250 | 20 | 1.16 | 2.00 | 30 |
| CS0402-R18□-S | 180 | 10 / 5 / 3 / 2 | 100 | 8 | 0.70 | 2.70 | 50 |
| CS0402-R22□-S | 220 | 10 / 5 / 3 / 2 | 100 | 8 | 0.70 | 4.00 | 50 |

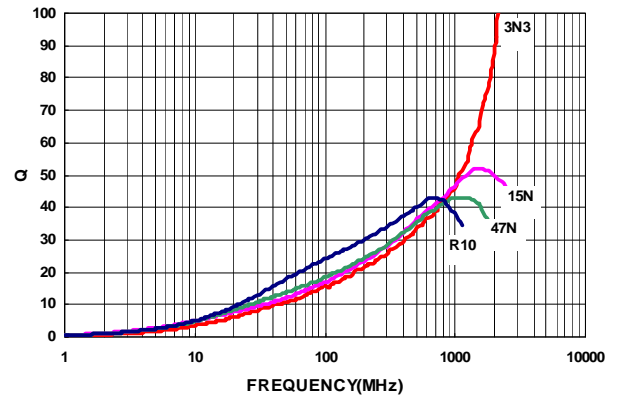
Note: When ordering, please specify tolerance code. Tolerance : B=±0.1nH , G=±2% , H=±3% , J=±5% , K=±10%

- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- I_{rms} for a 15°C temperature rise from 25°C ambient with current
- Measure Equipment :
 L & Q : Agilent E4991A+Agilent HP16197A
 SRF : Agilent HP8753D/Agilent HP8722ES
 RDC : HP4287A
 I_{rms} : HP4284A+HP42841A/HP4285A+HP42841A

Typical **L** vs. **Frequency**



Typical **Q** vs. **Frequency**



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Electrical Characteristics

| Part Number | Inductance (nH) | Tolerance (±%) | Test Frequency (MHz) | Q Min | SRF (MHz) Min | RDC (Ω) Max | Irms (mA) Max | Color |
|---------------|-----------------|-----------------|----------------------|-------|---------------|-------------|---------------|--------|
| CS0603-1N6□-S | 1.6 | 10 / 5 / ±0.1nH | 250 | 24 | 12500 | 0.030 | 700 | Red |
| CS0603-1N8□-S | 1.8 | 10 / 5 / ±0.1nH | 250 | 16 | 12500 | 0.045 | 700 | Black |
| CS0603-2N2□-S | 2.2 | 10 / 5 / ±0.1nH | 250 | 13 | 12500 | 0.250 | 700 | Yellow |
| CS0603-3N3□-S | 3.3 | 10 / 5 / 3 | 250 | 35 | 5900 | 0.045 | 700 | Blue |
| CS0603-3N6□-S | 3.6 | 10 / 5 / 3 / 2 | 250 | 22 | 5900 | 0.063 | 700 | Red |
| CS0603-3N9□-S | 3.9 | 10 / 5 / 3 / 2 | 250 | 22 | 6900 | 0.080 | 700 | Brown |
| CS0603-4N3□-S | 4.3 | 10 / 5 / 3 / 2 | 250 | 22 | 5900 | 0.063 | 700 | Orange |
| CS0603-4N7□-S | 4.7 | 10 / 5 / 3 / 2 | 250 | 20 | 5800 | 0.116 | 700 | Violet |
| CS0603-5N1□-S | 5.1 | 10 / 5 / 3 / 2 | 250 | 20 | 5700 | 0.140 | 700 | Green |
| CS0603-5N6□-S | 5.6 | 10 / 5 / 3 / 2 | 250 | 20 | 5800 | 0.170 | 700 | Yellow |
| CS0603-6N3□-S | 6.3 | 10 / 5 / 3 / 2 | 250 | 20 | 5700 | 0.140 | 700 | White |
| CS0603-6N8□-S | 6.8 | 10 / 5 / 3 / 2 | 250 | 27 | 5800 | 0.110 | 700 | Red |
| CS0603-7N5□-S | 7.5 | 10 / 5 / 3 / 2 | 250 | 28 | 4800 | 0.106 | 700 | Brown |
| CS0603-8N2□-S | 8.2 | 10 / 5 / 3 / 2 | 250 | 28 | 4700 | 0.109 | 700 | White |
| CS0603-8N7□-S | 8.7 | 10 / 5 / 3 / 2 | 250 | 28 | 4600 | 0.109 | 700 | Yellow |
| CS0603-9N1□-S | 9.1 | 10 / 5 / 3 / 2 | 250 | 28 | 4800 | 0.120 | 700 | Violet |
| CS0603-9N5□-S | 9.5 | 10 / 5 / 3 / 2 | 250 | 28 | 5400 | 0.135 | 700 | Blue |
| CS0603-10N□-S | 10 | 10 / 5 / 3 / 2 | 250 | 31 | 4800 | 0.130 | 700 | Orange |
| CS0603-11N□-S | 11 | 10 / 5 / 3 / 2 | 250 | 33 | 4000 | 0.086 | 700 | Gray |
| CS0603-12N□-S | 12 | 10 / 5 / 3 / 2 | 250 | 35 | 4000 | 0.130 | 700 | Yellow |
| CS0603-13N□-S | 13 | 10 / 5 / 3 / 2 | 250 | 30 | 4000 | 0.160 | 700 | Black |
| CS0603-15N□-S | 15 | 10 / 5 / 3 / 2 | 250 | 35 | 4000 | 0.170 | 700 | Green |
| CS0603-16N□-S | 16 | 10 / 5 / 3 / 2 | 250 | 34 | 3300 | 0.104 | 700 | White |
| CS0603-18N□-S | 18 | 10 / 5 / 3 / 2 | 250 | 35 | 3100 | 0.170 | 700 | Blue |
| CS0603-20N□-S | 20 | 10 / 5 / 3 / 2 | 250 | 38 | 3000 | 0.190 | 700 | Red |
| CS0603-22N□-S | 22 | 10 / 5 / 3 / 2 | 250 | 38 | 3000 | 0.190 | 700 | Violet |
| CS0603-23N□-S | 23 | 10 / 5 / 3 / 2 | 250 | 38 | 2850 | 0.190 | 700 | Orange |
| CS0603-24N□-S | 24 | 10 / 5 / 3 / 2 | 250 | 37 | 2650 | 0.135 | 700 | Black |
| CS0603-27N□-S | 27 | 10 / 5 / 3 / 2 | 250 | 40 | 2800 | 0.220 | 600 | Gray |
| CS0603-30N□-S | 30 | 10 / 5 / 3 / 2 | 250 | 37 | 2250 | 0.144 | 600 | Brown |
| CS0603-33N□-S | 33 | 10 / 5 / 3 / 2 | 250 | 40 | 2300 | 0.220 | 600 | White |
| CS0603-36N□-S | 36 | 10 / 5 / 3 / 2 | 250 | 38 | 2080 | 0.250 | 600 | Red |
| CS0603-39N□-S | 39 | 10 / 5 / 3 / 2 | 250 | 40 | 2200 | 0.250 | 600 | Black |
| CS0603-43N□-S | 43 | 10 / 5 / 3 / 2 | 250 | 39 | 2000 | 0.280 | 600 | Orange |
| CS0603-47N□-S | 47 | 10 / 5 / 3 / 2 | 200 | 38 | 2000 | 0.280 | 600 | Brown |
| CS0603-51N□-S | 51 | 10 / 5 / 3 / 2 | 200 | 38 | 1900 | 0.310 | 600 | Brown |
| CS0603-56N□-S | 56 | 10 / 5 / 3 / 2 | 200 | 38 | 1900 | 0.310 | 600 | Red |
| CS0603-68N□-S | 68 | 10 / 5 / 3 / 2 | 200 | 37 | 1700 | 0.340 | 600 | Orange |
| CS0603-72N□-S | 72 | 10 / 5 / 3 / 2 | 150 | 34 | 1700 | 0.490 | 400 | Yellow |
| CS0603-82N□-S | 82 | 10 / 5 / 3 / 2 | 150 | 34 | 1700 | 0.540 | 400 | Green |
| CS0603-91N□-S | 91 | 10 / 5 / 3 / 2 | 150 | 34 | 1400 | 0.580 | 400 | Black |

Note: When ordering, please specify tolerance code. Tolerance : B=±0.1nH , G=±2% , H=±3% , J=±5% , K=±10%

- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Irms for a 15°C temperature rise from 25°C ambient with current
- Measure Equipment :

L & Q : Agilent E4991A+Agilent HP16197A

SRF : Agilent HP8753D/Agilent E4991A

RDC : Chroma 16502

Irms : HP4284A+HP42841A/HP4285A+HP42841A

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without advance notice. Please contact our sales department before ordering.



Electrical Characteristics

| Part Number | Inductance (nH) | Tolerance (±%) | Test Frequency (MHz) | Q Min | SRF (MHz) Min | RDC (Ω) Max | Irms (mA) Max | Color |
|---------------|-----------------|----------------|----------------------|-------|---------------|-------------|---------------|--------|
| CS0603-R10□-S | 100 | 10 / 5 / 3 / 2 | 150 | 34 | 1400 | 0.580 | 400 | Blue |
| CS0603-R11□-S | 110 | 10 / 5 / 3 / 2 | 150 | 32 | 1350 | 0.610 | 300 | Violet |
| CS0603-R12□-S | 120 | 10 / 5 / 3 / 2 | 150 | 32 | 1300 | 0.750 | 300 | Gray |
| CS0603-R15□-S | 150 | 10 / 5 / 3 / 2 | 150 | 28 | 990 | 0.920 | 280 | White |
| CS0603-R16□-S | 160 | 10 / 5 / 3 / 2 | 100 | 25 | 990 | 1.250 | 240 | Yellow |
| CS0603-R18□-S | 180 | 10 / 5 / 3 / 2 | 100 | 25 | 990 | 1.250 | 240 | Black |
| CS0603-R20□-S | 200 | 10 / 5 / 3 / 2 | 100 | 25 | 900 | 2.100 | 200 | Red |
| CS0603-R21□-S | 210 | 10 / 5 / 3 / 2 | 100 | 27 | 895 | 2.060 | 200 | Gray |
| CS0603-R22□-S | 220 | 10 / 5 / 3 / 2 | 100 | 25 | 900 | 2.100 | 200 | Brown |
| CS0603-R24□-S | 240 | 10 / 5 / 3 / 2 | 100 | 25 | 900 | 2.200 | 200 | Green |
| CS0603-R25□-S | 250 | 10 / 5 / 3 / 2 | 100 | 25 | 822 | 3.550 | 120 | Violet |
| CS0603-R27□-S | 270 | 10 / 5 / 3 / 2 | 100 | 24 | 900 | 2.800 | 170 | Red |
| CS0603-R33□-S | 330 | 10 / 5 / 3 / 2 | 100 | 25 | 900 | 3.890 | 100 | Orange |
| CS0603-R39□-S | 390 | 10 / 5 / 3 / 2 | 100 | 25 | 900 | 4.350 | 100 | Yellow |
| CS0603-R47□-S | 470 | 10 / 5 / 3 / 2 | 100 | 25 | 500 | 4.500 | 100 | Brown |
| CS0603-R56□-S | 560 | 10 / 5 / 3 / 2 | 100 | 23 | 460 | 4.700 | 90 | Blue |

Note: When ordering, please specify tolerance code. Tolerance : B=±0.1nH , G=±2% , H=±3% , J=±5% , K=±10%

- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Irms for a 15°C temperature rise from 25°C ambient with current
- Measure Equipment :

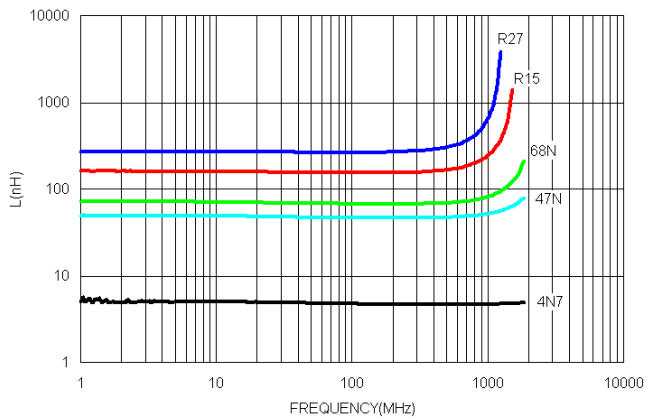
L & Q : Agilent E4991A+Agilent HP16197A

SRF : Agilent HP8753D/Agilent E4991A

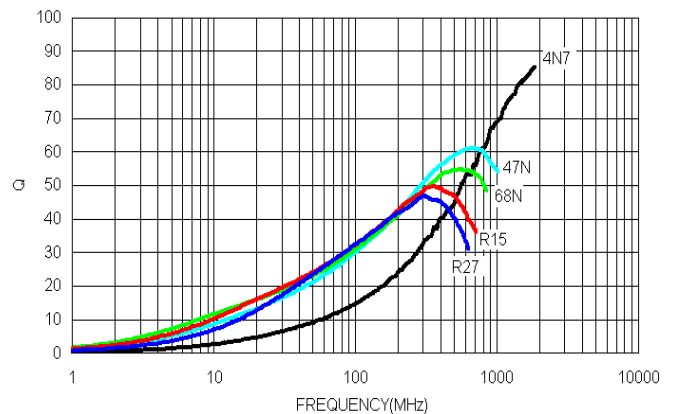
RDC : Chroma 16502

Irms : HP4284A+HP42841A/HP4285A+HP42841A

Typical L vs. Frequency



Typical Q vs. Frequency



Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without advance notice. Please contact our sales department before ordering.

Electrical Characteristics

| Part Number | Inductance (nH) | Tolerance (±%) | Test Frequency (MHz) | Q Min | Test Frequency (MHz) | SRF (MHz) Min | RDC (Ω) Max | I _{rms} (mA) Max | Color |
|---------------|-----------------|----------------|----------------------|-------|----------------------|---------------|-------------|---------------------------|--------|
| CS0805-2N7□-S | 2.7 | 10 / 5 / 2 | 250 | 50 | 1500 | 7900 | 0.06 | 800 | Yellow |
| CS0805-2N8□-S | 2.8 | 10 / 5 / 2 | 250 | 80 | 1500 | 7900 | 0.06 | 800 | Gray |
| CS0805-3N0□-S | 3.0 | 10 / 5 / 2 | 250 | 65 | 1500 | 7900 | 0.06 | 800 | White |
| CS0805-3N3□-S | 3.3 | 10 / 5 / 2 | 250 | 50 | 1500 | 7900 | 0.08 | 600 | Black |
| CS0805-5N6□-S | 5.6 | 10 / 5 / 2 | 250 | 65 | 1000 | 5500 | 0.08 | 600 | Orange |
| CS0805-6N8□-S | 6.8 | 10 / 5 / 2 | 250 | 50 | 1000 | 5500 | 0.11 | 600 | Brown |
| CS0805-7N5□-S | 7.5 | 10 / 5 / 2 | 250 | 50 | 1000 | 4500 | 0.14 | 600 | Green |
| CS0805-8N2□-S | 8.2 | 10 / 5 / 2 | 250 | 50 | 1000 | 4700 | 0.12 | 600 | Red |
| CS0805-10N□-S | 10 | 10 / 5 / 2 | 250 | 60 | 500 | 4200 | 0.10 | 600 | Blue |
| CS0805-12N□-S | 12 | 10 / 5 / 2 | 250 | 50 | 500 | 4000 | 0.15 | 600 | Orange |
| CS0805-15N□-S | 15 | 10 / 5 / 2 | 250 | 50 | 500 | 3400 | 0.17 | 600 | Yellow |
| CS0805-18N□-S | 18 | 10 / 5 / 2 | 250 | 50 | 500 | 3300 | 0.20 | 600 | Green |
| CS0805-22N□-S | 22 | 10 / 5 / 2 | 250 | 55 | 500 | 2600 | 0.22 | 500 | Blue |
| CS0805-24N□-S | 24 | 10 / 5 / 2 | 250 | 50 | 500 | 2000 | 0.22 | 500 | Gray |
| CS0805-27N□-S | 27 | 10 / 5 / 2 | 250 | 55 | 500 | 2500 | 0.25 | 500 | Violet |
| CS0805-33N□-S | 33 | 10 / 5 / 2 | 250 | 60 | 500 | 2050 | 0.27 | 500 | Gray |
| CS0805-36N□-S | 36 | 10 / 5 / 2 | 250 | 55 | 500 | 1700 | 0.27 | 500 | Orange |
| CS0805-39N□-S | 39 | 10 / 5 / 2 | 250 | 60 | 500 | 2000 | 0.29 | 500 | White |
| CS0805-43N□-S | 43 | 10 / 5 / 2 | 200 | 60 | 500 | 1650 | 0.34 | 500 | Yellow |
| CS0805-47N□-S | 47 | 10 / 5 / 2 | 200 | 60 | 500 | 1650 | 0.31 | 500 | Black |
| CS0805-56N□-S | 56 | 10 / 5 / 2 | 200 | 60 | 500 | 1550 | 0.34 | 500 | Brown |
| CS0805-68N□-S | 68 | 10 / 5 / 2 | 200 | 60 | 500 | 1450 | 0.38 | 500 | Red |
| CS0805-82N□-S | 82 | 10 / 5 / 2 | 150 | 65 | 500 | 1300 | 0.42 | 400 | Orange |
| CS0805-91N□-S | 91 | 10 / 5 / 2 | 150 | 65 | 500 | 1200 | 0.48 | 400 | Black |
| CS0805-R10□-S | 100 | 10 / 5 / 2 | 150 | 65 | 500 | 1200 | 0.46 | 400 | Yellow |
| CS0805-R11□-S | 110 | 10 / 5 / 2 | 150 | 50 | 250 | 1000 | 0.48 | 400 | Brown |
| CS0805-R12□-S | 120 | 10 / 5 / 2 | 150 | 50 | 250 | 1100 | 0.51 | 400 | Green |
| CS0805-R15□-S | 150 | 10 / 5 / 2 | 100 | 50 | 250 | 920 | 0.56 | 400 | Blue |
| CS0805-R18□-S | 180 | 10 / 5 / 2 | 100 | 50 | 250 | 870 | 0.64 | 400 | Violet |
| CS0805-R20□-S | 200 | 10 / 5 / 2 | 100 | 50 | 250 | 860 | 0.68 | 400 | Red |
| CS0805-R22□-S | 220 | 10 / 5 / 2 | 100 | 50 | 250 | 850 | 0.70 | 400 | Gray |
| CS0805-R24□-S | 240 | 10 / 5 / 2 | 100 | 44 | 250 | 690 | 1.00 | 350 | Red |
| CS0805-R25□-S | 250 | 10 / 5 / 2 | 100 | 45 | 250 | 660 | 1.20 | 350 | Yellow |
| CS0805-R27□-S | 270 | 10 / 5 / 2 | 100 | 48 | 250 | 650 | 1.00 | 350 | White |
| CS0805-R30□-S | 300 | 10 / 5 / 2 | 100 | 25 | 250 | 450 | 1.40 | 310 | Orange |
| CS0805-R33□-S | 330 | 10 / 5 / 2 | 100 | 48 | 250 | 600 | 1.40 | 310 | Black |
| CS0805-R39□-S | 390 | 10 / 5 / 2 | 100 | 48 | 250 | 450 | 1.50 | 290 | Brown |
| CS0805-R47□-S | 470 | 10 / 5 / 2 | 50 | 33 | 100 | 375 | 1.76 | 250 | Violet |
| CS0805-R51□-S | 510 | 10 / 5 / 2 | 25 | 23 | 50 | 340 | 1.90 | 230 | Gray |
| CS0805-R56□-S | 560 | 10 / 5 / 2 | 25 | 23 | 50 | 340 | 1.90 | 230 | Orange |
| CS0805-R62□-S | 620 | 10 / 5 / 2 | 25 | 23 | 50 | 220 | 2.20 | 210 | Yellow |
| CS0805-R68□-S | 680 | 10 / 5 / 2 | 25 | 23 | 50 | 188 | 2.20 | 190 | Green |

Note: When ordering, please specify tolerance code. Tolerance : G=±2% , J=±5% , K=±10%

- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- I_{rms} for a 15°C temperature rise from 25°C ambient with current
- Measure Equipment :
 - L & Q : Agilent E4991A+Agilent HP16197A
 - SRF : Agilent HP8753D/Agilent E4991A
 - RDC : Chroma 16502
 - I_{rms} : HP4284A+HP42841A/HP4285A+HP42841A

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without advance notice. Please contact our sales department before ordering.

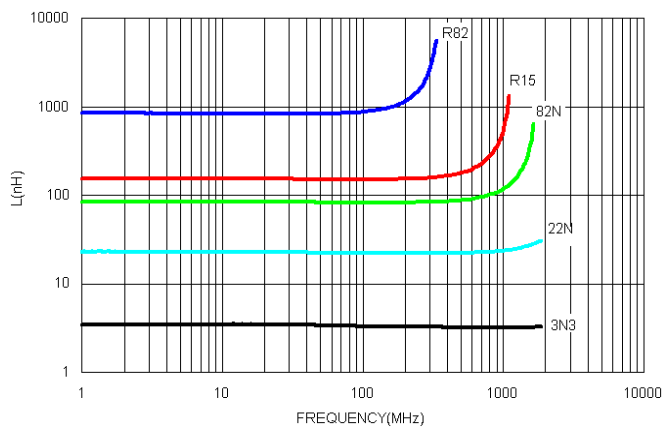
Electrical Characteristics

| Part Number | Inductance (nH) | Tolerance (±%) | Test Frequency (MHz) | Q Min | Test Frequency (MHz) | SRF (MHz) Min | RDC (Ω) Max | Irms (mA) Max | Color |
|---------------|-----------------|----------------|----------------------|-------|----------------------|---------------|-------------|---------------|--------|
| CS0805-R82□-S | 820 | 10 / 5 / 2 | 25 | 23 | 50 | 215 | 2.35 | 180 | Blue |
| CS0805-1R0□-S | 1000 | 10 / 5 / 2 | 25 | 20 | 50 | 100 | 2.50 | 170 | Gray |
| CS0805-1R2□-S | 1200 | 10 / 5 | 7.9 | 18 | 25 | 100 | 2.50 | 170 | White |
| CS0805-1R8□-S | 1800 | 10 / 5 / 2 | 7.9 | 16 | 7.9 | 80 | 2.50 | 170 | Orange |
| CS0805-3R3□-S | 3300 | 10 / 5 / 2 | 7.9 | 15 | 7.9 | 40 | 4.40 | 90 | Red |
| CS0805-4R7□-S | 4700 | 10 / 5 / 2 | 7.9 | 15 | 7.9 | 40 | 6.40 | 90 | Yellow |

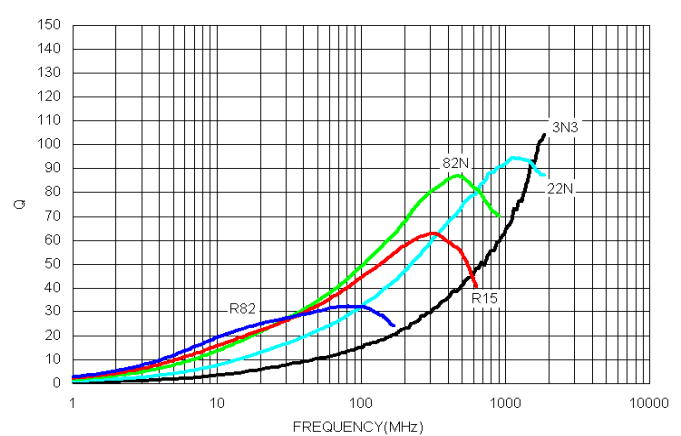
Note: When ordering, please specify tolerance code. Tolerance : G=±2% , J=±5% , K=±10%

- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- I_{rms} for a 15°C temperature rise from 25°C ambient with current
- Measure Equipment :
 L & Q : Agilent E4991A+Agilent HP16197A
 SRF : Agilent HP8753D/Agilent E4991A
 RDC : Chroma 16502
 I_{rms} : HP4284A+HP42841A/HP4285A+HP42841A

Typical **L** vs. **F** Frequency



Typical **Q** vs. **F** Frequency



Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without advance notice. Please contact our sales department before ordering.

Electrical Characteristics

| Part Number | Inductance (nH) | Tolerance (±%) | Test Frequency (MHz) | Q Min | Test Frequency (MHz) | SRF (MHz) Min | RDC (Ω) Max | I _{rms} (mA) Max | Color Coding | | |
|---------------|-----------------|----------------|----------------------|-------|----------------------|---------------|-------------|---------------------------|-----------------|-----------------|-----------------|
| | | | | | | | | | 1 ST | 2 ND | 3 RD |
| CS1008-10N□-S | 10 | 10 / 5 / 2 | 50 | 50 | 500 | 4100 | 0.08 | 1000 | Brown | Black | Black |
| CS1008-12N□-S | 12 | 10 / 5 / 2 | 50 | 50 | 500 | 3300 | 0.09 | 1000 | Brown | Red | Black |
| CS1008-15N□-S | 15 | 10 / 5 / 2 | 50 | 50 | 500 | 2500 | 0.10 | 1000 | Brown | Green | Black |
| CS1008-18N□-S | 18 | 10 / 5 / 2 | 50 | 50 | 350 | 2500 | 0.11 | 1000 | Brown | Gray | Black |
| CS1008-22N□-S | 22 | 10 / 5 / 2 | 50 | 55 | 350 | 2400 | 0.12 | 1000 | Red | Red | Black |
| CS1008-27N□-S | 27 | 10 / 5 / 2 | 50 | 55 | 350 | 1600 | 0.13 | 1000 | Red | Violet | Black |
| CS1008-33N□-S | 33 | 10 / 5 / 2 | 50 | 60 | 350 | 1600 | 0.14 | 1000 | Orange | Orange | Black |
| CS1008-39N□-S | 39 | 10 / 5 / 2 | 50 | 60 | 350 | 1500 | 0.15 | 1000 | Orange | White | Black |
| CS1008-47N□-S | 47 | 10 / 5 / 2 | 50 | 65 | 350 | 1500 | 0.16 | 1000 | Yellow | Violet | Black |
| CS1008-56N□-S | 56 | 10 / 5 / 2 | 50 | 65 | 350 | 1300 | 0.18 | 1000 | Green | Blue | Black |
| CS1008-68N□-S | 68 | 10 / 5 / 2 | 50 | 65 | 350 | 1300 | 0.20 | 1000 | Blue | Gray | Black |
| CS1008-82N□-S | 82 | 10 / 5 / 2 | 50 | 60 | 350 | 1000 | 0.22 | 1000 | Gray | Red | Black |
| CS1008-R10□-S | 100 | 10 / 5 / 2 | 25 | 60 | 350 | 1000 | 0.56 | 650 | Brown | Black | Brown |
| CS1008-R12□-S | 120 | 10 / 5 / 2 | 25 | 60 | 350 | 950 | 0.63 | 650 | Brown | Red | Brown |
| CS1008-R15□-S | 150 | 10 / 5 / 2 | 25 | 45 | 100 | 850 | 0.70 | 580 | Brown | Green | Brown |
| CS1008-R18□-S | 180 | 10 / 5 / 2 | 25 | 45 | 100 | 750 | 0.77 | 620 | Brown | Gray | Brown |
| CS1008-R20□-S | 200 | 10 / 5 / 2 | 25 | 45 | 100 | 700 | 0.84 | 500 | Red | Black | Brown |
| CS1008-R22□-S | 220 | 10 / 5 / 2 | 25 | 45 | 100 | 700 | 0.84 | 500 | Red | Red | Brown |
| CS1008-R27□-S | 270 | 10 / 5 / 2 | 25 | 45 | 100 | 600 | 0.91 | 500 | Red | Violet | Brown |
| CS1008-R33□-S | 330 | 10 / 5 / 2 | 25 | 45 | 100 | 570 | 1.05 | 450 | Orange | Orange | Brown |
| CS1008-R39□-S | 390 | 10 / 5 / 2 | 25 | 45 | 100 | 500 | 1.12 | 470 | Orange | White | Brown |
| CS1008-R47□-S | 470 | 10 / 5 / 2 | 25 | 45 | 100 | 450 | 1.19 | 470 | Yellow | Violet | Brown |
| CS1008-R56□-S | 560 | 10 / 5 / 2 | 25 | 45 | 100 | 415 | 1.33 | 400 | Green | Blue | Brown |
| CS1008-R62□-S | 620 | 10 / 5 / 2 | 25 | 45 | 100 | 375 | 1.40 | 300 | Blue | Red | Brown |
| CS1008-R68□-S | 680 | 10 / 5 / 2 | 25 | 45 | 100 | 375 | 1.47 | 400 | Blue | Gray | Brown |
| CS1008-R75□-S | 750 | 10 / 5 / 2 | 25 | 45 | 100 | 360 | 1.54 | 360 | Violet | Green | Brown |
| CS1008-R82□-S | 820 | 10 / 5 / 2 | 25 | 45 | 100 | 350 | 1.61 | 400 | Gray | Red | Brown |
| CS1008-R91□-S | 910 | 10 / 5 / 2 | 25 | 35 | 50 | 320 | 1.68 | 380 | White | Brown | Brown |
| CS1008-1R0□-S | 1000 | 10 / 5 / 2 | 25 | 35 | 50 | 290 | 1.75 | 370 | Brown | Black | Red |
| CS1008-1R2□-S | 1200 | 10 / 5 / 2 | 7.9 | 35 | 50 | 250 | 2.0 | 310 | Brown | Red | Red |
| CS1008-1R5□-S | 1500 | 10 / 5 / 2 | 7.9 | 28 | 50 | 200 | 2.3 | 330 | Brown | Green | Red |
| CS1008-1R8□-S | 1800 | 10 / 5 / 2 | 7.9 | 28 | 50 | 160 | 2.6 | 300 | Brown | Gray | Red |
| CS1008-2R2□-S | 2200 | 10 / 5 / 2 | 7.9 | 28 | 50 | 160 | 2.8 | 280 | Red | Red | Red |
| CS1008-2R7□-S | 2700 | 10 / 5 / 2 | 7.9 | 22 | 25 | 140 | 3.2 | 290 | Red | Violet | Red |
| CS1008-3R3□-S | 3300 | 10 / 5 / 2 | 7.9 | 22 | 25 | 110 | 3.4 | 290 | Orange | Orange | Red |
| CS1008-3R9□-S | 3900 | 10 / 5 / 2 | 7.9 | 20 | 25 | 100 | 3.6 | 260 | Orange | White | Red |
| CS1008-4R7□-S | 4700 | 10 / 5 / 2 | 7.9 | 20 | 25 | 90 | 4.0 | 260 | Yellow | Violet | Red |
| CS1008-5R6□-S | 5600 | 10 / 5 / 2 | 7.9 | 18 | 7.9 | 45 | 4.0 | 240 | Green | Blue | Red |
| CS1008-6R8□-S | 6800 | 10 / 5 / 2 | 7.9 | 18 | 7.9 | 40 | 4.9 | 200 | Blue | Gray | Red |
| CS1008-8R2□-S | 8200 | 10 / 5 / 2 | 7.9 | 18 | 7.9 | 25 | 6.0 | 170 | Gray | Red | Red |
| CS1008-100□-S | 10000 | 10 / 5 / 2 | 2.52 | 18 | 7.9 | 25 | 8.0 | 150 | Brown | Black | Orange |
| CS1008-150□-S | 15000 | 10 / 5 / 2 | 2.52 | 15 | 7.9 | 20 | 11 | 100 | Brown | Green | Orange |

Note: When ordering, please specify tolerance code. Tolerance : G=±2% , J=±5% , K=±10%

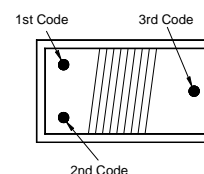
- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- I_{rms} for a 15°C temperature rise from 25°C ambient with current
- Measure Equipment :

L & Q : Agilent E4991A+Agilent HP16197A

SRF : Agilent HP8753D/Agilent E4991A

RDC : Chroma 16502

I_{rms} : HP4284A+HP42841A/HP4285A+HP42841A

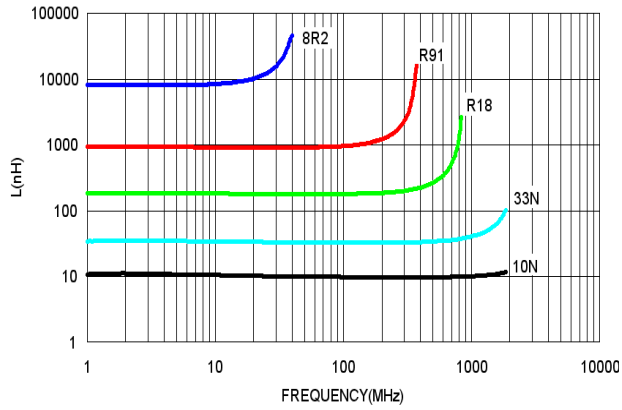


COLOR CODING

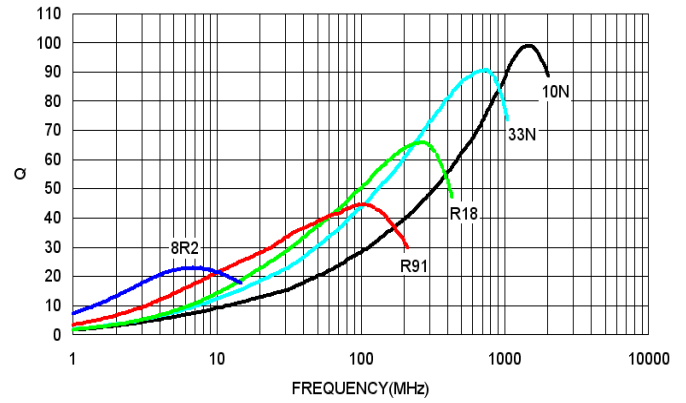
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without advance notice. Please contact our sales department before ordering.

SMD Wire Wound Ceramic Chip Inductors - CS Series

Typical **L** vs. **F** Frequency



Typical **Q** vs. **F** Frequency



Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without advance notice. Please contact our sales department before ordering.

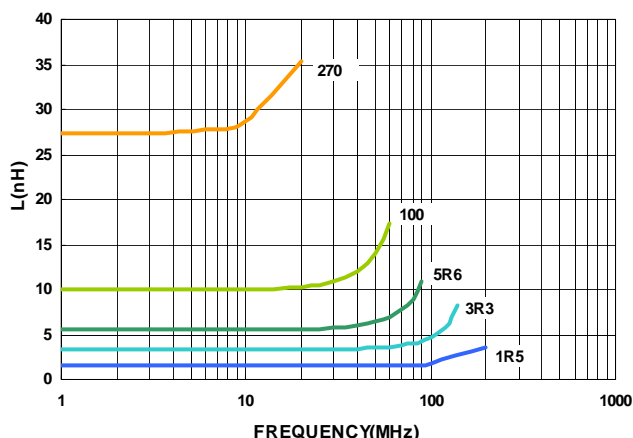
Electrical Characteristics

| Part Number | Inductance (uH) | Tolerance (±%) | Test Frequency (MHz) | Q Min | Test Frequency (MHz) | SRF (MHz) Min | RDC (Ω) Max | I _{rms} (mA) Typ |
|---------------|-----------------|----------------|----------------------|-------|----------------------|---------------|-------------|---------------------------|
| CS1812-1R0□-N | 1.0 | J | 7.9 | 60 | 50 | 310 | 1.2 | 480 |
| CS1812-1R2□-N | 1.2 | J | 7.9 | 62 | 50 | 230 | 1.2 | 480 |
| CS1812-1R5□-N | 1.5 | J | 7.9 | 65 | 50 | 210 | 1.6 | 430 |
| CS1812-1R8□-N | 1.8 | J | 7.9 | 68 | 50 | 190 | 2.0 | 380 |
| CS1812-2R2□-N | 2.2 | J | 7.9 | 63 | 50 | 170 | 2.2 | 340 |
| CS1812-2R7□-N | 2.7 | J | 7.9 | 60 | 50 | 160 | 3.2 | 300 |
| CS1812-3R3□-N | 3.3 | J | 7.9 | 60 | 50 | 145 | 3.8 | 270 |
| CS1812-3R9□-N | 3.9 | J | 7.9 | 61 | 50 | 130 | 5.0 | 240 |
| CS1812-4R7□-N | 4.7 | J | 7.9 | 60 | 50 | 115 | 5.4 | 230 |
| CS1812-5R6□-N | 5.6 | J | 7.9 | 42 | 50 | 100 | 5.7 | 220 |
| CS1812-6R8□-N | 6.8 | J | 7.9 | 32 | 50 | 90 | 6.6 | 210 |
| CS1812-8R2□-N | 8.2 | J | 7.9 | 35 | 50 | 80 | 7.0 | 200 |
| CS1812-100□-N | 10 | J | 7.9 | 27 | 50 | 70 | 7.7 | 190 |
| CS1812-120□-N | 12 | J | 2.5 | 34 | 10 | 58 | 8.7 | 180 |
| CS1812-150□-N | 15 | J | 2.5 | 32 | 10 | 48 | 9.6 | 170 |
| CS1812-180□-N | 18 | J | 2.5 | 28 | 10 | 36 | 10.5 | 160 |
| CS1812-220□-N | 22 | J | 2.5 | 28 | 10 | 34 | 11.5 | 155 |
| CS1812-270□-N | 27 | J | 2.5 | 28 | 10 | 30 | 12.5 | 150 |
| CS1812-330□-N | 33 | J | 2.5 | 20 | 10 | 20 | 13.5 | 145 |

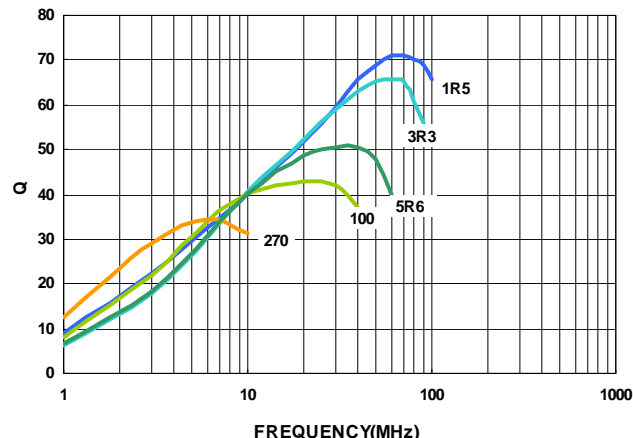
Note: When ordering, please specify tolerance code. Tolerance : J=±5%

- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- I_{rms} for a 15°C temperature rise from 25°C ambient with current
- Measure Equipment :
 L & Q : HP4286A/HP4287A/AgilentE4991/Keysight E4982A
 SRF : Agilent HP8753D/Agilent E4991A
 RDC : Chroma 16502
 I_{rms} : HP4284A+HP42841A/HP4285A+HP42841A

Typical **L** vs. **F** Frequency



Typical **Q** vs. **F** Frequency



Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without advance notice. Please contact our sales department before ordering.

Packaging Specifications

Tape Dimensions

Figure 1

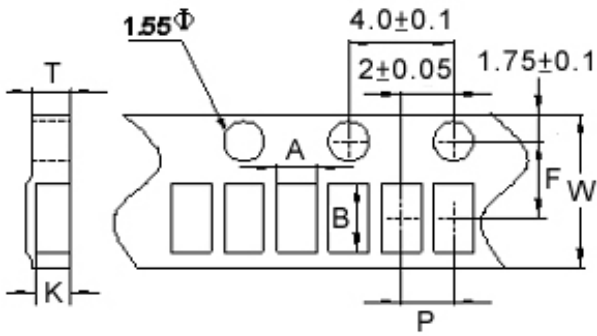


Figure 2

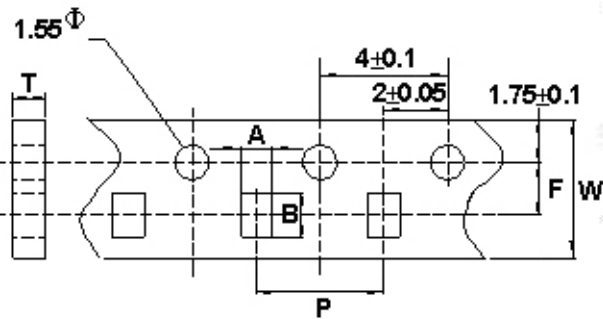
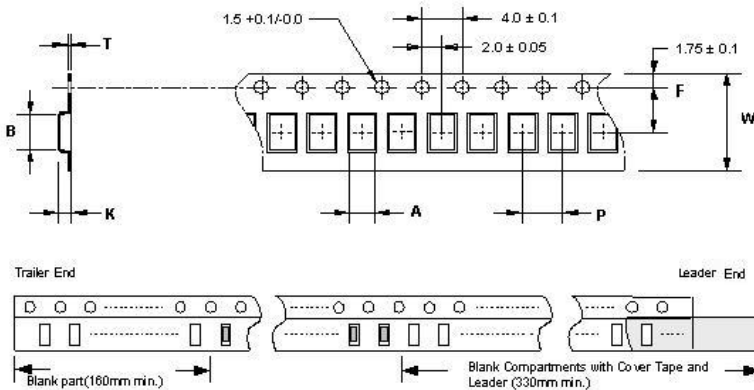
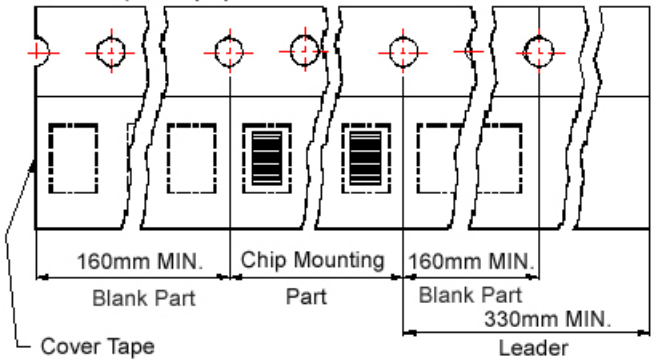


Figure 3

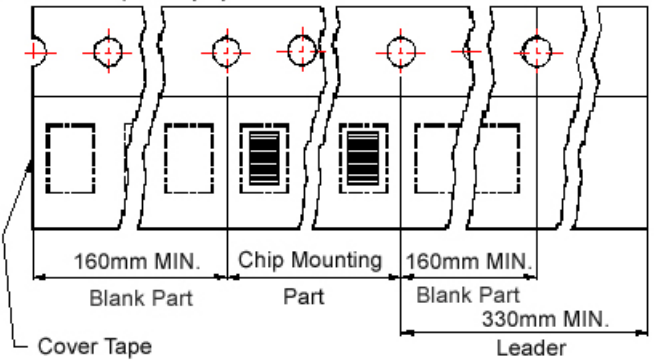


Tape Material

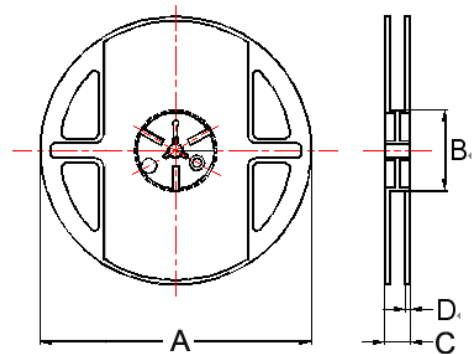
Carrier Tape: Paper
Cover Tape: Polystyrene



Carrier Tape: Paper
Cover Tape: Polystyrene



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 | |
| CS0201 | 1 | 0.47 | 0.57 | 0.65 | 8 | 2 | 3.5 | 0.45 | 178 | 60 | 12 | 1.5 | 4000 |
| CS0402 | 1 | 0.67 | 1.20 | 0.75 | 8 | 2 | 3.5 | 0.59 | 178 | 60 | 12 | 1.5 | 4000 |
| CS0603 | 2 | 1.20 | 1.80 | 1.05 | 8 | 4 | 3.5 | - | 178 | 60 | 12 | 1.5 | 4000 |
| CS0805 | 3 | 1.85 | 2.45 | 0.23 | 8 | 4 | 3.5 | 1.50 | 178 | 60 | 12 | 1.5 | 2000 |
| CS1008 | 3 | 2.80 | 2.95 | 0.23 | 8 | 4 | 3.5 | 2.20 | 178 | 60 | 12 | 1.5 | 2000 |
| CS1812 | 3 | 3.90 | 4.90 | 0.30 | 12 | 8 | 5.5 | 3.20 | 178 | 60 | 16 | 1.4 | 600 |

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