

LCN 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.

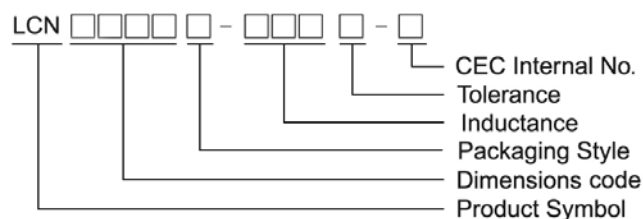
Features

- 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

Applications

- RF products for cellular phone
- GPS receiver
- Base Station
- Repeater
- Wireless LAN/ mouse/ keyboard/ earphone
- Remote control
- Security system and other RF modules

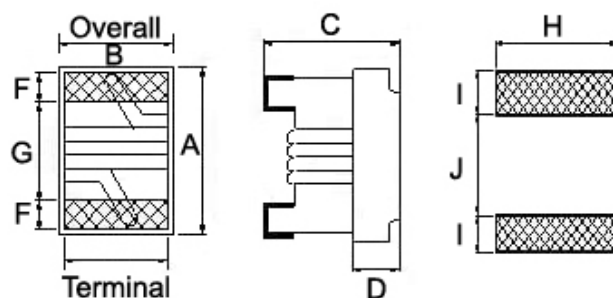
Product Identification



- Packaging: T : Tape and Reel

Shape and Dimensions/ Recommended Pattern

LCN0603/0805/1008/1206



Dimensions

| | | A Max | B Max | C Max | D | E | F | G | H | I | J |
|----------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| LCN 0603 | inch | 0.071 | 0.044 | 0.04 | 0.020 | 0.030 | 0.013 | 0.034 | 0.040 | 0.025 | 0.025 |
| | mm | 1.80 | 1.12 | 1.02 | 0.51 | 0.76 | 0.33 | 0.86 | 1.02 | 0.64 | 0.64 |
| LCN 0805 | 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 |
| LCN 1008 | 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 |
| LCN 1206 | inch | 0.146 | 0.110 | 0.087 | 0.035 | 0.091 | 0.020 | 0.086 | 0.106 | 0.039 | 0.079 |
| | mm | 3.70 | 2.80 | 2.20 | 0.90 | 2.30 | 0.51 | 2.18 | 2.70 | 1.00 | 2.00 |

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. | |
| LCN0603T-1N6□-S | 1.6 | 250 | 10 / 5 | 24 | 12500 | 0.030 | 700 | 1.60 | 49 | 1.58 | 63 | Red |
| LCN0603T-1N8□-S | 1.8 | 250 | 10 / 5 | 16 | 12500 | 0.045 | 700 | 1.60 | 35 | 1.66 | 50 | Black |
| LCN0603T-3N6□-S | 3.6 | 250 | 10 / 5 | 22 | 5900 | 0.063 | 700 | 3.70 | 53 | 3.71 | 65 | Red |
| LCN0603T-3N9□-S | 3.9 | 250 | 10 / 5 | 22 | 6900 | 0.080 | 700 | 3.95 | 49 | 3.96 | 67 | Brown |
| LCN0603T-4N3□-S | 4.3 | 250 | 10 / 5 | 22 | 5900 | 0.063 | 700 | 4.32 | 50 | 4.33 | 70 | Orange |
| LCN0603T-4N7□-S | 4.7 | 250 | 10 / 5 | 20 | 5800 | 0.116 | 700 | 4.72 | 47 | 4.75 | 57 | Violet |
| LCN0603T-5N1□-S | 5.1 | 250 | 10 / 5 | 20 | 5700 | 0.140 | 700 | 4.93 | 47 | 4.95 | 56 | Green |
| LCN0603T-6N3□-S | 6.3 | 250 | 10 / 5 | 20 | 5700 | 0.140 | 700 | 5.50 | 47 | 6.1 | 60 | White |
| LCN0603T-6N8□-S | 6.8 | 250 | 10 / 5 | 27 | 5800 | 0.110 | 700 | 6.75 | 60 | 7.1 | 81 | Red |
| LCN0603T-7N5□-S | 7.5 | 250 | 10 / 5 | 28 | 4800 | 0.106 | 700 | 7.70 | 60 | 7.82 | 65 | Brown |
| LCN0603T-8N2□-S | 8.2 | 250 | 10 / 5 | 28 | 4700 | 0.109 | 700 | 8.30 | 60 | 8.50 | 60 | White |
| LCN0603T-8N7□-S | 8.7 | 250 | 10 / 5 | 28 | 4600 | 0.109 | 700 | 8.86 | 62 | 9.32 | 58 | Yellow |
| LCN0603T-9N5□-S | 9.5 | 250 | 10 / 5 | 28 | 5400 | 0.135 | 700 | 9.70 | 59 | 9.92 | 61 | Blue |
| LCN0603T-10N□-S | 10 | 250 | 10 / 5 / 2 | 31 | 4800 | 0.130 | 700 | 10.0 | 66 | 10.6 | 83 | Orange |
| LCN0603T-11N□-S | 11 | 250 | 10 / 5 / 2 | 33 | 4000 | 0.086 | 700 | 11.0 | 53 | 11.5 | 56 | Gray |
| LCN0603T-12N□-S | 12 | 250 | 10 / 5 / 2 | 35 | 4000 | 0.130 | 700 | 12.3 | 72 | 13.5 | 83 | Yellow |
| LCN0603T-15N□-S | 15 | 250 | 10 / 5 / 2 | 35 | 4000 | 0.170 | 700 | 15.4 | 64 | 16.8 | 89 | Green |
| LCN0603T-16N□-S | 16 | 250 | 10 / 5 / 2 | 34 | 3300 | 0.104 | 700 | 16.2 | 55 | 17.3 | 52 | White |
| LCN0603T-18N□-S | 18 | 250 | 10 / 5 / 2 | 35 | 3100 | 0.170 | 700 | 18.7 | 70 | 21.4 | 69 | Blue |
| LCN0603T-22N□-S | 22 | 250 | 10 / 5 / 2 | 38 | 3000 | 0.190 | 700 | 22.8 | 73 | 26.1 | 71 | Violet |
| LCN0603T-24N□-S | 24 | 250 | 10 / 5 / 2 | 37 | 2650 | 0.135 | 700 | 24.5 | 45 | 28.7 | 39 | Black |
| LCN0603T-27N□-S | 27 | 250 | 10 / 5 / 2 | 40 | 2800 | 0.220 | 600 | 29.2 | 74 | 34.6 | 65 | Gray |
| LCN0603T-30N□-S | 30 | 250 | 10 / 5 / 2 | 37 | 2250 | 0.144 | 600 | 31.4 | 47 | 39.9 | 28 | Brown |
| LCN0603T-33N□-S | 33 | 250 | 10 / 5 / 2 | 40 | 2300 | 0.220 | 600 | 36.0 | 67 | 49.5 | 42 | White |
| LCN0603T-36N□-S | 36 | 250 | 10 / 5 / 2 | 38 | 2080 | 0.250 | 600 | 39.4 | 47 | 52.7 | 24 | Red |
| LCN0603T-39N□-S | 39 | 250 | 10 / 5 / 2 | 40 | 2200 | 0.250 | 600 | 42.7 | 60 | 60.2 | 40 | Black |
| LCN0603T-43N□-S | 43 | 250 | 10 / 5 / 2 | 39 | 2000 | 0.280 | 600 | 47.0 | 44 | 64.9 | 21 | Orange |
| LCN0603T-47N□-S | 47 | 200 | 10 / 5 / 2 | 38 | 2000 | 0.280 | 600 | 52.2 | 62 | 77.2 | 35 | Brown |
| LCN0603T-56N□-S | 56 | 200 | 10 / 5 / 2 | 38 | 1900 | 0.310 | 600 | 62.5 | 56 | 97 | 26 | Red |
| LCN0603T-68N□-S | 68 | 200 | 10 / 5 / 2 | 37 | 1700 | 0.340 | 600 | 80.5 | 54 | 168 | 21 | Orange |
| LCN0603T-72N□-S | 72 | 150 | 10 / 5 / 2 | 34 | 1700 | 0.490 | 400 | 82.0 | 53 | 135 | 20 | Yellow |
| LCN0603T-82N□-S | 82 | 150 | 10 / 5 / 2 | 34 | 1700 | 0.540 | 400 | 96.2 | 54 | 177 | 21 | Green |
| LCN0603T-R10□-S | 100 | 150 | 10 / 5 / 2 | 34 | 1400 | 0.580 | 400 | 124 | 49 | | | Blue |
| LCN0603T-R11□-S | 110 | 150 | 10 / 5 / 2 | 32 | 1350 | 0.610 | 300 | 138 | 43 | | | Violet |
| LCN0603T-R12□-S | 120 | 150 | 10 / 5 / 2 | 32 | 1300 | 0.750 | 300 | 166 | 39 | | | Gray |
| LCN0603T-R15□-S | 150 | 150 | 10 / 5 / 2 | 28 | 990 | 0.920 | 280 | 250 | 25 | | | White |
| LCN0603T-R18□-S | 180 | 100 | 10 / 5 / 2 | 25 | 990 | 1.250 | 240 | 305 | 22 | | | Black |
| LCN0603T-R22□-S | 220 | 100 | 10 / 5 / 2 | 25 | 900 | 2.100 | 200 | 480 | 8 | | | Brown |
| LCN0603T-R27□-S | 270 | 100 | 10 / 5 / 2 | 24 | 900 | 2.800 | 170 | 980 | 4 | | | Red |

- When ordering, please specify tolerance and packaging codes.
- Tolerance : G = ±2% , J = ±5% , K = ±10%
- L/Q: Agilent E4991A+AgilentHP16197A
- SRF: Agilent/HP8753D / Agilent E4991A
- 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

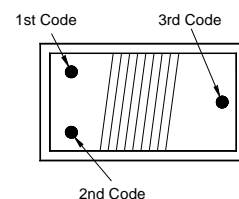
| Part Number | Inductance (nH) | Test Frequency (MHz) | Tolerance (±%) | Q Min | Test Frequency (MHz) | SRF (MHz) Min | Rdc (Ω) Max | Irms (mA) Max | Color |
|-----------------|-----------------|----------------------|----------------|-------|----------------------|---------------|-------------|---------------|--------|
| LCN0805T-2N8□-S | 2.8 | 250 | 10 / 5 | 70 | 1500 | 7900 | 0.06 | 800 | Gray |
| LCN0805T-3N0□-S | 3.0 | 250 | 10 / 5 | 65 | 1500 | 7900 | 0.06 | 800 | White |
| LCN0805T-3N3□-S | 3.3 | 250 | 10 / 5 | 50 | 1500 | 7900 | 0.08 | 600 | Black |
| LCN0805T-5N6□-S | 5.6 | 250 | 10 / 5 | 65 | 1000 | 5500 | 0.08 | 600 | Orange |
| LCN0805T-6N8□-S | 6.8 | 250 | 10 / 5 | 50 | 1000 | 5500 | 0.11 | 600 | Brown |
| LCN0805T-7N5□-S | 7.5 | 250 | 10 / 5 | 50 | 1000 | 4500 | 0.14 | 600 | Green |
| LCN0805T-8N2□-S | 8.2 | 250 | 10 / 5 | 50 | 1000 | 4700 | 0.12 | 600 | Red |
| LCN0805T-10N□-S | 10 | 250 | 10 / 5 / 2 | 60 | 500 | 4200 | 0.10 | 600 | Blue |
| LCN0805T-12N□-S | 12 | 250 | 10 / 5 / 2 | 50 | 500 | 4000 | 0.15 | 600 | Orange |
| LCN0805T-15N□-S | 15 | 250 | 10 / 5 / 2 | 50 | 500 | 3400 | 0.17 | 600 | Yellow |
| LCN0805T-18N□-S | 18 | 250 | 10 / 5 / 2 | 50 | 500 | 3300 | 0.20 | 600 | Green |
| LCN0805T-22N□-S | 22 | 250 | 10 / 5 / 2 | 55 | 500 | 2600 | 0.22 | 500 | Blue |
| LCN0805T-24N□-S | 24 | 250 | 10 / 5 / 2 | 50 | 500 | 2000 | 0.22 | 500 | Gray |
| LCN0805T-27N□-S | 27 | 250 | 10 / 5 / 2 | 55 | 500 | 2500 | 0.25 | 500 | Violet |
| LCN0805T-33N□-S | 33 | 250 | 10 / 5 / 2 | 60 | 500 | 2050 | 0.27 | 500 | Gray |
| LCN0805T-36N□-S | 36 | 250 | 10 / 5 / 2 | 55 | 500 | 1700 | 0.27 | 500 | Orange |
| LCN0805T-39N□-S | 39 | 250 | 10 / 5 / 2 | 60 | 500 | 2000 | 0.29 | 500 | White |
| LCN0805T-43N□-S | 43 | 200 | 10 / 5 / 2 | 60 | 500 | 1650 | 0.34 | 500 | Yellow |
| LCN0805T-47N□-S | 47 | 200 | 10 / 5 / 2 | 60 | 500 | 1650 | 0.31 | 500 | Black |
| LCN0805T-56N□-S | 56 | 200 | 10 / 5 / 2 | 60 | 500 | 1550 | 0.34 | 500 | Brown |
| LCN0805T-68N□-S | 68 | 200 | 10 / 5 / 2 | 60 | 500 | 1450 | 0.38 | 500 | Red |
| LCN0805T-82N□-S | 82 | 150 | 10 / 5 / 2 | 65 | 500 | 1300 | 0.42 | 400 | Orange |
| LCN0805T-91N□-S | 91 | 150 | 10 / 5 / 2 | 65 | 500 | 1200 | 0.48 | 400 | Black |
| LCN0805T-R10□-S | 100 | 150 | 10 / 5 / 2 | 65 | 500 | 1200 | 0.46 | 400 | Yellow |
| LCN0805T-R11□-S | 110 | 150 | 10 / 5 / 2 | 50 | 250 | 1000 | 0.48 | 400 | Brown |
| LCN0805T-R12□-S | 120 | 150 | 10 / 5 / 2 | 50 | 250 | 1100 | 0.51 | 400 | Green |
| LCN0805T-R15□-S | 150 | 100 | 10 / 5 / 2 | 50 | 250 | 920 | 0.56 | 400 | Blue |
| LCN0805T-R18□-S | 180 | 100 | 10 / 5 / 2 | 50 | 250 | 870 | 0.64 | 400 | Violet |
| LCN0805T-R20□-S | 200 | 100 | 10 / 5 / 2 | 50 | 250 | 860 | 0.70 | 400 | Red |
| LCN0805T-R22□-S | 220 | 100 | 10 / 5 / 2 | 50 | 250 | 850 | 0.70 | 400 | Gray |
| LCN0805T-R24□-S | 240 | 100 | 10 / 5 / 2 | 44 | 250 | 690 | 1.00 | 350 | Red |
| LCN0805T-R25□-S | 250 | 100 | 10 / 5 / 2 | 45 | 250 | 660 | 1.00 | 350 | Yellow |
| LCN0805T-R27□-S | 270 | 100 | 10 / 5 / 2 | 48 | 250 | 650 | 1.00 | 350 | White |
| LCN0805T-R33□-S | 330 | 100 | 10 / 5 / 2 | 48 | 250 | 600 | 1.40 | 310 | Black |
| LCN0805T-R39□-S | 390 | 100 | 10 / 5 / 2 | 25 | 250 | 400 | 1.50 | 290 | Brown |
| LCN0805T-R47□-S | 470 | 50 | 10 / 5 / 2 | 33 | 100 | 400 | 1.76 | 250 | Violet |
| LCN0805T-R56□-S | 560 | 25 | 10 / 5 / 2 | 20 | 50 | 200 | 1.90 | 230 | Orange |
| LCN0805T-R68□-S | 680 | 25 | 10 / 5 / 2 | 18 | 50 | 130 | 2.20 | 190 | Green |
| LCN0805T-R82□-S | 820 | 25 | 10 / 5 / 2 | 15 | 50 | 100 | 2.35 | 180 | Blue |

- When ordering, please specify tolerance and packaging codes.
- Tolerance: G = ±2%, J = ±5%, K = ±10%
- Packaging: Clear tape and reel {standard}
- L/Q: Agilent E4991A + AgilentHP16197A
- SRF: Agilent/HP8753D / Agilent E4991A
- 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)

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 |
| LCN1008T-10N□-S | 10 | 50 | 10 / 5 / 2 | 50 | 500 | 4100 | 0.08 | 1000 | Brown | Black | Black |
| LCN1008T-12N□-S | 12 | 50 | 10 / 5 / 2 | 50 | 500 | 3300 | 0.09 | 1000 | Brown | Red | Black |
| LCN1008T-15N□-S | 15 | 50 | 10 / 5 / 2 | 50 | 500 | 2500 | 0.10 | 1000 | Brown | Green | Black |
| LCN1008T-18N□-S | 18 | 50 | 10 / 5 / 2 | 50 | 350 | 2500 | 0.11 | 1000 | Brown | Gray | Black |
| LCN1008T-22N□-S | 22 | 50 | 10 / 5 / 2 | 55 | 350 | 2400 | 0.12 | 1000 | Red | Red | Black |
| LCN1008T-27N□-S | 27 | 50 | 10 / 5 / 2 | 55 | 350 | 1600 | 0.13 | 1000 | Red | Violet | Black |
| LCN1008T-33N□-S | 33 | 50 | 10 / 5 / 2 | 60 | 350 | 1600 | 0.14 | 1000 | Orange | Orange | Black |
| LCN1008T-39N□-S | 39 | 50 | 10 / 5 / 2 | 60 | 350 | 1500 | 0.15 | 1000 | Orange | White | Black |
| LCN1008T-47N□-S | 47 | 50 | 10 / 5 / 2 | 65 | 350 | 1500 | 0.16 | 1000 | Yellow | Violet | Black |
| LCN1008T-56N□-S | 56 | 50 | 10 / 5 / 2 | 65 | 350 | 1300 | 0.18 | 1000 | Green | Blue | Black |
| LCN1008T-68N□-S | 68 | 50 | 10 / 5 / 2 | 65 | 350 | 1300 | 0.20 | 1000 | Blue | Gray | Black |
| LCN1008T-82N□-S | 82 | 50 | 10 / 5 / 2 | 60 | 350 | 1000 | 0.22 | 1000 | Gray | Red | Black |
| LCN1008T-R10□-S | 100 | 25 | 10 / 5 / 2 | 60 | 350 | 1000 | 0.56 | 650 | Brown | Black | Brown |
| LCN1008T-R12□-S | 120 | 25 | 10 / 5 / 2 | 60 | 350 | 950 | 0.63 | 650 | Brown | Red | Brown |
| LCN1008T-R15□-S | 150 | 25 | 10 / 5 / 2 | 45 | 100 | 850 | 0.70 | 580 | Brown | Green | Brown |
| LCN1008T-R18□-S | 180 | 25 | 10 / 5 / 2 | 45 | 100 | 750 | 0.77 | 620 | Brown | Gray | Brown |
| LCN1008T-R22□-S | 220 | 25 | 10 / 5 / 2 | 45 | 100 | 700 | 0.84 | 500 | Red | Red | Brown |
| LCN1008T-R27□-S | 270 | 25 | 10 / 5 / 2 | 45 | 100 | 600 | 0.91 | 500 | Red | Violet | Brown |
| LCN1008T-R33□-S | 330 | 25 | 10 / 5 / 2 | 45 | 100 | 570 | 1.05 | 450 | Orange | Orange | Brown |
| LCN1008T-R39□-S | 390 | 25 | 10 / 5 / 2 | 45 | 100 | 500 | 1.12 | 470 | Orange | White | Brown |
| LCN1008T-R47□-S | 470 | 25 | 10 / 5 / 2 | 45 | 100 | 450 | 1.19 | 470 | Yellow | Violet | Brown |
| LCN1008T-R56□-S | 560 | 25 | 10 / 5 / 2 | 45 | 100 | 415 | 1.33 | 400 | Green | Blue | Brown |
| LCN1008T-R62□-S | 620 | 25 | 10 / 5 / 2 | 45 | 100 | 375 | 1.40 | 300 | Blue | Red | Brown |
| LCN1008T-R68□-S | 680 | 25 | 10 / 5 / 2 | 45 | 100 | 375 | 1.47 | 400 | Blue | Gray | Brown |
| LCN1008T-R75□-S | 750 | 25 | 10 / 5 / 2 | 45 | 100 | 360 | 1.54 | 360 | Violet | Green | Brown |
| LCN1008T-R82□-S | 820 | 25 | 10 / 5 / 2 | 45 | 100 | 350 | 1.61 | 400 | Gray | Red | Brown |
| LCN1008T-R91□-S | 910 | 25 | 10 / 5 / 2 | 35 | 50 | 320 | 1.68 | 380 | White | Brown | Brown |
| LCN1008T-1R0□-S | 1000 | 25 | 10 / 5 / 2 | 35 | 50 | 220 | 1.75 | 370 | Brown | Black | Red |
| LCN1008T-1R2□-S | 1200 | 7.9 | 10 / 5 / 2 | 35 | 50 | 186 | 2.0 | 310 | Brown | Red | Red |
| LCN1008T-1R5□-S | 1500 | 7.9 | 10 / 5 / 2 | 28 | 50 | 200 | 2.3 | 330 | Brown | Green | Red |
| LCN1008T-1R8□-S | 1800 | 7.9 | 10 / 5 / 2 | 25 | 50 | 170 | 2.6 | 300 | Brown | Gray | Red |
| LCN1008T-2R2□-S | 2200 | 7.9 | 10 / 5 / 2 | 20 | 50 | 110 | 2.8 | 280 | Red | Red | Red |
| LCN1008T-2R7□-S | 2700 | 7.9 | 10 / 5 / 2 | 15 | 25 | 140 | 3.2 | 290 | Red | Violet | Red |
| LCN1008T-3R3□-S | 3300 | 7.9 | 10 / 5 / 2 | 15 | 25 | 100 | 3.4 | 290 | Orange | Orange | Red |
| LCN1008T-3R9□-S | 3900 | 7.9 | 10 / 5 / 2 | 15 | 25 | 100 | 3.6 | 260 | Orange | White | Red |
| LCN1008T-4R7□-S | 4700 | 7.9 | 10 / 5 / 2 | 13 | 25 | 90 | 4.0 | 260 | Yellow | Violet | Red |
| LCN1008T-5R6□-S | 5600 | 7.9 | 10 / 5 / 2 | 16 | 7.9 | 20 | 4.0 | 240 | Green | Yellow | Red |
| LCN1008T-6R8□-S | 6800 | 7.9 | 10 / 5 / 2 | 18 | 7.9 | 40 | 4.9 | 200 | Yellow | Gray | Red |
| LCN1008T-8R2□-S | 8200 | 7.9 | 10 / 5 / 2 | 18 | 7.9 | 25 | 6.0 | 170 | Gray | Red | Red |

- When ordering, please specify tolerance and packaging codes.
- Tolerance: G = ±2% , J = ±5% , K = ±10%
- Packaging: Clear tape and reel {standard}.
- L /Q Agilent E4991A + AgilentHP16197A
- SRF: Agilent/HP8753D / Agilent E4991A
- 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)

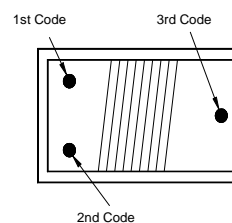


COLOR CODING

Electrical Characteristics

| Part Number | Inductance (nH) | Test Frequency (MHz) | Tolerance (±%) | Q Min | Test Frequency (MHz) | SRF (MHz) Min | Rdc (Ω) Max | I _{rms} (mA) Max | Color Coding | | |
|-----------------|-----------------|----------------------|----------------|-------|----------------------|---------------|-------------|---------------------------|-----------------|-----------------|-----------------|
| | | | | | | | | | 1 ST | 2 ND | 3 RD |
| LCN1206T-3N3□-S | 3.3 | 100 | 10 / 5 | 30 | 300 | 6200 | 0.05 | 1000 | Black | Orange | Black |
| LCN1206T-6N8□-S | 6.8 | 100 | 10 / 5 | 30 | 300 | 5500 | 0.07 | 1000 | Black | Blue | Black |
| LCN1206T-10N□-S | 10 | 100 | 10 / 5 / 2 | 40 | 300 | 4000 | 0.08 | 1000 | Brown | Black | Black |
| LCN1206T-12N□-S | 12 | 100 | 10 / 5 / 2 | 40 | 300 | 3200 | 0.08 | 1000 | Brown | Red | Black |
| LCN1206T-15N□-S | 15 | 100 | 10 / 5 / 2 | 40 | 300 | 3200 | 0.10 | 1000 | Brown | Green | Black |
| LCN1206T-18N□-S | 18 | 100 | 10 / 5 / 2 | 50 | 300 | 2800 | 0.10 | 1000 | Brown | Gray | Black |
| LCN1206T-22N□-S | 22 | 100 | 10 / 5 / 2 | 50 | 300 | 2200 | 0.10 | 1000 | Red | Red | Black |
| LCN1206T-27N□-S | 27 | 100 | 10 / 5 / 2 | 50 | 300 | 1800 | 0.11 | 1000 | Red | Violet | Black |
| LCN1206T-33N□-S | 33 | 100 | 10 / 5 / 2 | 55 | 300 | 1800 | 0.11 | 1000 | Orange | Orange | Black |
| LCN1206T-39N□-S | 39 | 100 | 10 / 5 / 2 | 55 | 300 | 1800 | 0.12 | 1000 | Orange | White | Black |
| LCN1206T-47N□-S | 47 | 100 | 10 / 5 / 2 | 55 | 300 | 1500 | 0.13 | 1000 | Yellow | Violet | Black |
| LCN1206T-56N□-S | 56 | 100 | 10 / 5 / 2 | 55 | 300 | 1450 | 0.14 | 1000 | Green | Blue | Black |
| LCN1206T-68N□-S | 68 | 100 | 10 / 5 / 2 | 55 | 300 | 1200 | 0.26 | 900 | Blue | Gray | Black |
| LCN1206T-82N□-S | 82 | 100 | 10 / 5 / 2 | 55 | 300 | 1200 | 0.21 | 900 | Gray | Red | Black |
| LCN1206T-R10□-S | 100 | 100 | 10 / 5 / 2 | 55 | 300 | 1100 | 0.26 | 850 | Brown | Black | Brown |
| LCN1206T-R12□-S | 120 | 100 | 10 / 5 / 2 | 60 | 300 | 1100 | 0.26 | 800 | Brown | Red | Brown |
| LCN1206T-R15□-S | 150 | 100 | 10 / 5 / 2 | 60 | 300 | 950 | 0.31 | 750 | Brown | Green | Brown |
| LCN1206T-R18□-S | 180 | 50 | 10 / 5 / 2 | 60 | 300 | 900 | 0.43 | 700 | Brown | Gray | Brown |
| LCN1206T-R22□-S | 220 | 50 | 10 / 5 / 2 | 60 | 300 | 760 | 0.50 | 670 | Red | Red | Brown |
| LCN1206T-R27□-S | 270 | 50 | 10 / 5 / 2 | 55 | 300 | 730 | 0.56 | 630 | Red | Violet | Brown |
| LCN1206T-R33□-S | 330 | 50 | 10 / 5 / 2 | 45 | 150 | 650 | 0.62 | 590 | Orange | Orange | Brown |
| LCN1206T-R39□-S | 390 | 50 | 10 / 5 / 2 | 45 | 150 | 600 | 0.75 | 530 | Orange | White | Brown |
| LCN1206T-R47□-S | 470 | 50 | 10 / 5 / 2 | 45 | 150 | 550 | 1.30 | 490 | Yellow | Violet | Brown |
| LCN1206T-R56□-S | 560 | 35 | 10 / 5 / 2 | 45 | 150 | 470 | 1.34 | 460 | Green | Blue | Brown |
| LCN1206T-R62□-S | 620 | 35 | 10 / 5 / 2 | 45 | 150 | 470 | 1.58 | 460 | Blue | Red | Brown |
| LCN1206T-R68□-S | 680 | 35 | 10 / 5 / 2 | 45 | 150 | 450 | 1.58 | 430 | Blue | Gray | Brown |
| LCN1206T-R75□-S | 750 | 35 | 10 / 5 / 2 | 45 | 150 | 440 | 2.25 | 320 | Violet | Green | Brown |
| LCN1206T-R82□-S | 820 | 35 | 10 / 5 / 2 | 45 | 150 | 420 | 1.82 | 400 | Gray | Red | Brown |
| LCN1206T-R91□-S | 910 | 35 | 10 / 5 / 2 | 45 | 150 | 410 | 2.95 | 310 | White | Brown | Brown |
| LCN1206T-1R0□-S | 1000 | 35 | 10 / 5 / 2 | 45 | 150 | 400 | 2.80 | 320 | Brown | Black | Red |
| LCN1206T-1R2□-S | 1200 | 35 | 10 / 5 / 2 | 45 | 150 | 380 | 3.20 | 300 | Brown | Red | Red |

- When ordering, please specify tolerance and packaging codes.
- Tolerance: G = ±2% , J = ±5% , K = ±10%
- L / Q: Agilent E4991A + AgilentHP16197A
- SRF: Agilent/HP8753D / Agilent E4991A
- 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)



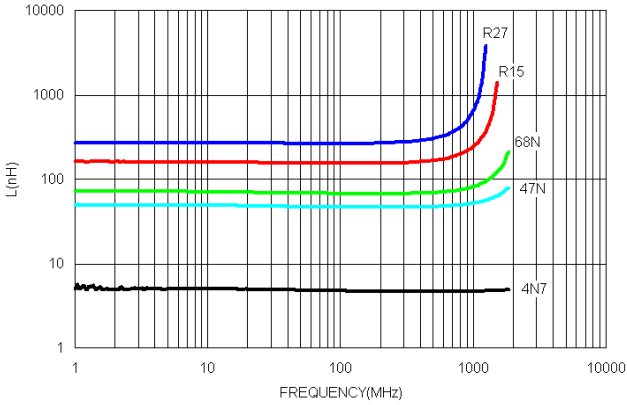
COLOR CODING

SMD Wire Wound Ceramic Chip Inductors - LCN Series

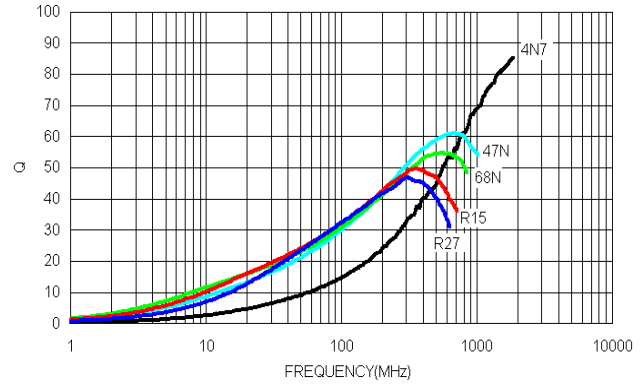
Test Instruments : Agilent E4991A Material/Impedance Analyzer

LCN0603

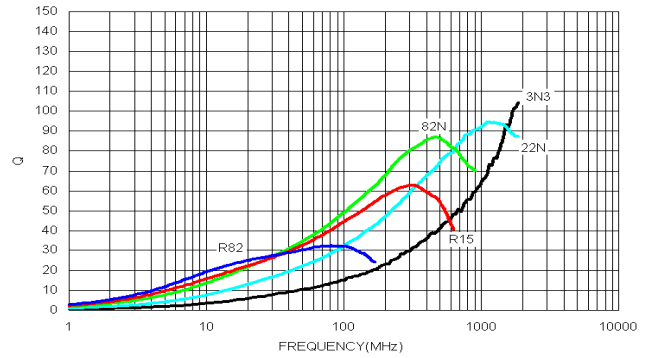
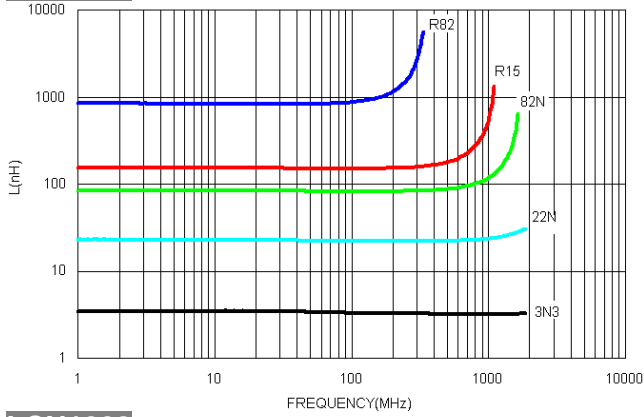
Typical **L** vs. Frequency



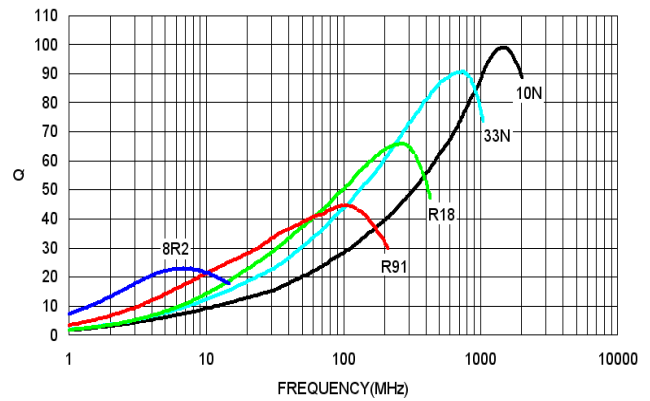
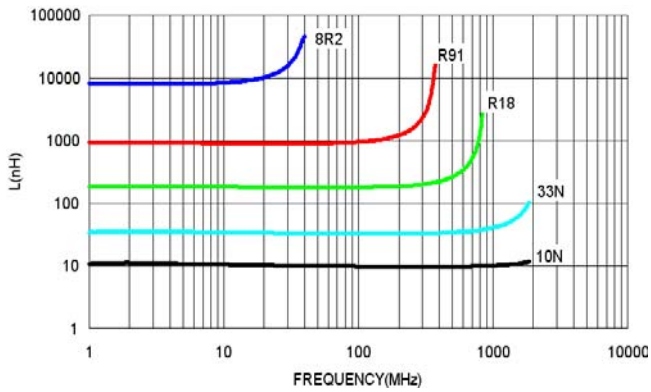
Typical **Q** vs. Frequency



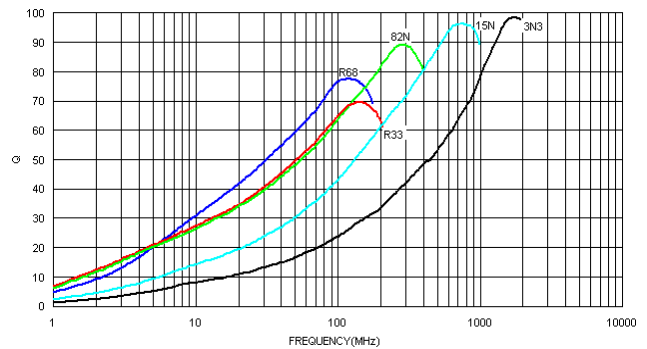
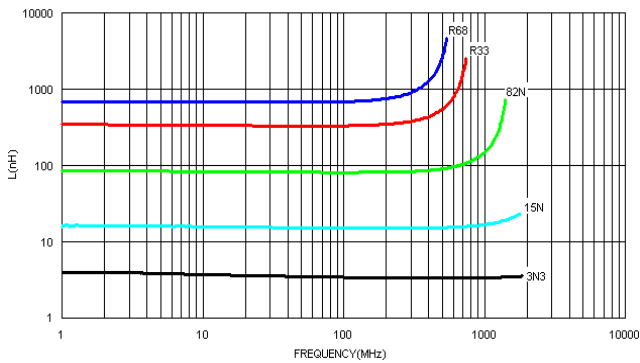
LCN0805



LCN1008



LCN1206

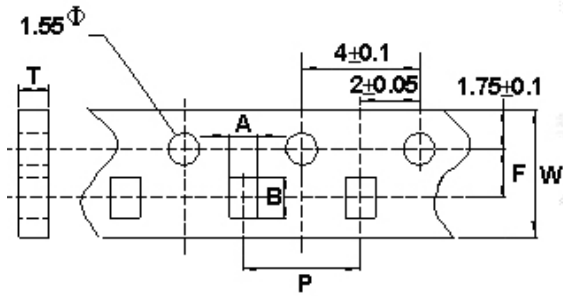


Packaging Specifications

Tape Dimensions

Tape Material

Figure 1



Carrier Tape: Polycarbonate
Cover Tape: Polystyrene

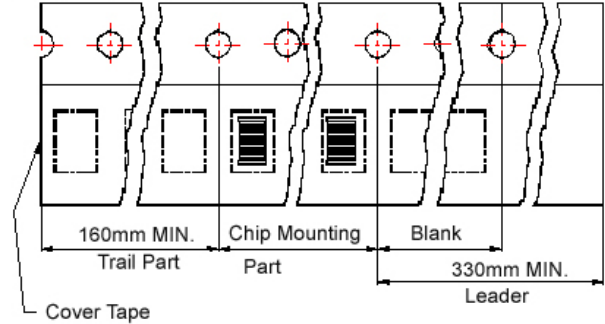
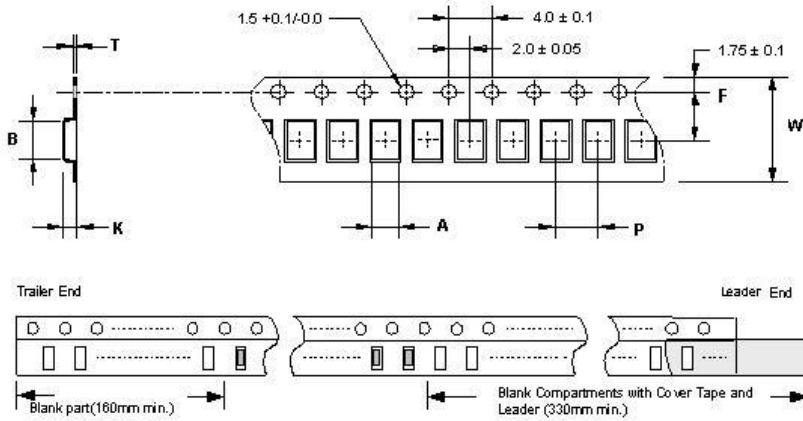
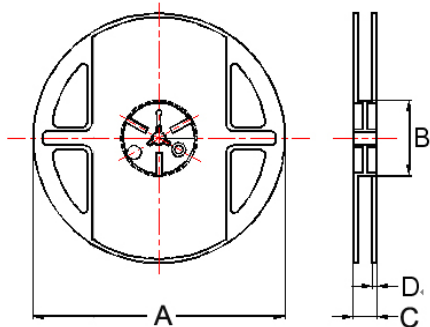


Figure 2



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 | |
| LCN0603 | 1 | 1.16 | 1.85 | 0.95 | 8 | 4 | 3.5 | - | 178 | 60 | 12 | 1.5 | 4000 |
| LCN0805 | 2 | 1.85 | 2.45 | 0.23 | 8 | 4 | 3.5 | 1.50 | 178 | 60 | 12 | 1.5 | 2500 |
| LCN1008 | 2 | 2.80 | 2.95 | 0.23 | 8 | 4 | 3.5 | 2.20 | 178 | 60 | 12 | 1.5 | 2000 |
| LCN1206 | 2 | 2.85 | 3.58 | 0.25 | 12 | 4 | 5.5 | 2.55 | 178 | 60 | 16 | 1.4 | 2000 |