

NL Series



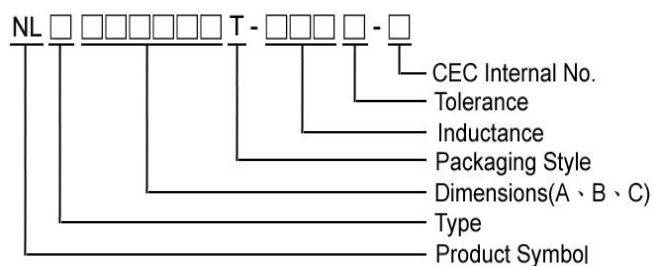
Features

- RoHS compliant
- Strong solderability by reflow soldering and soldering iron
- Highly accurate dimensions
- Can be mounted automatically
- Terminals are highly resistant to external forces
- Highly resistant to mechanical shocks and pressure
- Highly reliable in environments of sudden temperature change and humidity
- Superior Q characteristics and the broadest L selections among peers

Applications

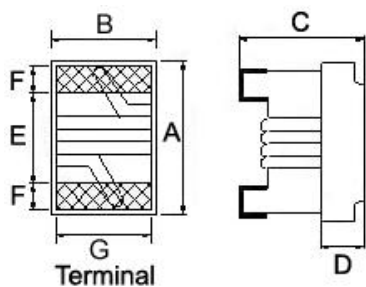
- Microtelevisions
- Liquid crystal televisions
- Video cameras
- Portable VCRs
- Car radios
- Car stereos
- Thin tape radios
- Television tuners
- Mobile telephones
- Radio and other electronic devices

Product Identification

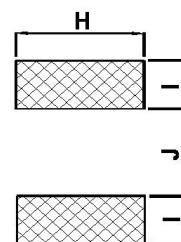


- Packaging: T : Tape and Reel

Shape and Dimensions



Recommended Pattern



Dimensions in mm

| TYPE | A Max | B Max | C Max | D | E | F | G | H | I | J |
|----------|-------|-------|-------|------|------|------|------|------|------|------|
| NL201614 | 2.40 | 1.72 | 1.52 | 0.70 | 1.02 | 0.50 | 1.27 | 1.78 | 1.02 | 0.76 |
| NL252018 | 2.92 | 2.50 | 2.79 | 2.20 | 0.70 | 1.50 | 0.50 | 2.00 | 2.54 | 1.02 |

NL252018: B Max: 2.79 mm, at 5N0~R10,
2.50 mm, at R12~101

Electrical Characteristics

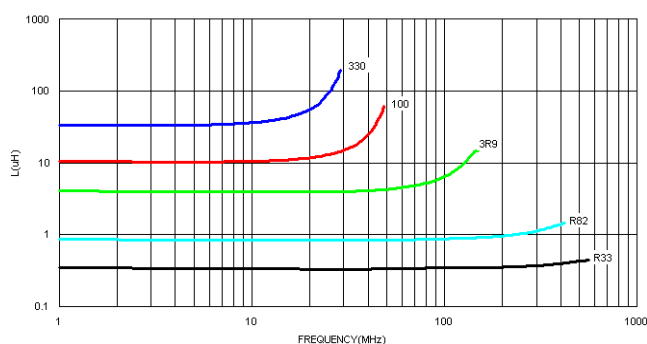
| Part Number | Inductance (uH) | Tolerance (±%) | Q Min | Test Frequency (MHz) | SRF (MHz) Min | RDC (Ω) Max | IDC (mA) | Color |
|------------------|-----------------|----------------|-------|----------------------|---------------|-------------|----------|--------|
| NL201614T-R12□-N | 0.12 | 10 / 5 | 25 | 25.2 | 500 | 0.20 | 600 | White |
| NL201614T-R15□-N | 0.15 | 10 / 5 | 25 | 25.2 | 450 | 0.25 | 600 | Black |
| NL201614T-R18□-N | 0.18 | 10 / 5 | 25 | 25.2 | 410 | 0.30 | 570 | Brown |
| NL201614T-R22□-N | 0.22 | 10 / 5 | 25 | 25.2 | 350 | 0.35 | 550 | Red |
| NL201614T-R27□-N | 0.27 | 10 / 5 | 25 | 25.2 | 280 | 0.40 | 530 | Orange |
| NL201614T-R33□-N | 0.33 | 10 / 5 | 25 | 25.2 | 235 | 0.45 | 510 | Yellow |
| NL201614T-R39□-N | 0.39 | 10 / 5 | 25 | 25.2 | 210 | 0.50 | 490 | Green |
| NL201614T-R47□-N | 0.47 | 10 / 5 | 25 | 25.2 | 170 | 0.55 | 470 | Blue |
| NL201614T-R56□-N | 0.56 | 10 / 5 | 25 | 25.2 | 150 | 0.60 | 450 | Violet |
| NL201614T-R68□-N | 0.68 | 10 / 5 | 25 | 25.2 | 140 | 0.70 | 420 | Gray |
| NL201614T-R82□-N | 0.82 | 10 / 5 | 25 | 25.2 | 130 | 0.75 | 400 | White |
| NL201614T-1R0□-N | 1.00 | 10 / 5 | 15 | 7.96 | 115 | 0.80 | 350 | Black |
| NL201614T-1R2□-N | 1.20 | 10 / 5 | 15 | 7.96 | 95 | 0.90 | 325 | Brown |
| NL201614T-1R5□-N | 1.50 | 10 / 5 | 15 | 7.96 | 85 | 1.05 | 300 | Red |
| NL201614T-1R8□-N | 1.80 | 10 / 5 | 15 | 7.96 | 80 | 1.20 | 270 | Orange |
| NL201614T-2R2□-N | 2.20 | 10 / 5 | 15 | 7.96 | 75 | 1.40 | 250 | Yellow |
| NL201614T-2R7□-N | 2.70 | 10 / 5 | 15 | 7.96 | 70 | 1.60 | 230 | Green |
| NL201614T-3R3□-N | 3.30 | 10 / 5 | 15 | 7.96 | 60 | 1.80 | 210 | Blue |
| NL201614T-3R9□-N | 3.90 | 10 / 5 | 15 | 7.96 | 55 | 2.00 | 190 | Violet |
| NL201614T-4R7□-N | 4.70 | 10 / 5 | 15 | 7.96 | 45 | 2.40 | 170 | Gray |
| NL201614T-5R6□-N | 5.60 | 10 / 5 | 15 | 7.96 | 40 | 2.70 | 150 | White |
| NL201614T-6R8□-N | 6.80 | 10 / 5 | 15 | 7.96 | 36 | 3.20 | 140 | Black |
| NL201614T-8R2□-N | 8.20 | 10 / 5 | 15 | 7.96 | 33 | 3.60 | 120 | Brown |
| NL201614T-100□-N | 10.0 | 10 / 5 | 15 | 2.52 | 30 | 4.50 | 110 | Red |
| NL201614T-120□-N | 12.0 | 10 / 5 | 15 | 2.52 | 25 | 5.70 | 105 | Orange |
| NL201614T-150□-N | 15.0 | 10 / 5 | 15 | 2.52 | 23 | 6.50 | 90 | Yellow |
| NL201614T-180□-N | 18.0 | 10 / 5 | 15 | 2.52 | 21 | 7.00 | 85 | Green |
| NL201614T-220□-N | 22.0 | 10 / 5 | 15 | 2.52 | 20 | 8.00 | 78 | Blue |
| NL201614T-270□-N | 27.0 | 10 / 5 | 15 | 2.52 | 18 | 9.00 | 75 | Violet |
| NL201614T-330□-N | 33.0 | 10 / 5 | 15 | 2.52 | 17 | 10.0 | 70 | Gray |

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

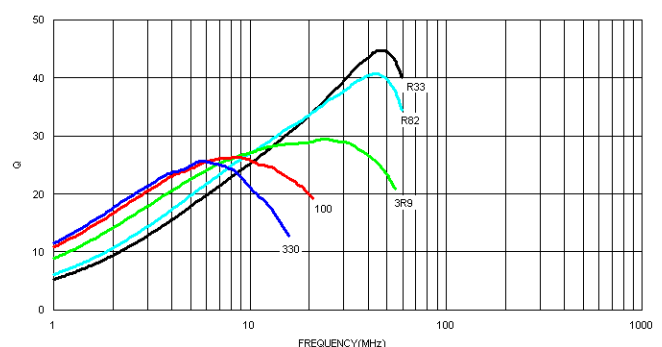
- Operating temperature range - 25°C ~ 105°C(Including self - temperature rise)
- IDC for Inductance drop 10% from its value with current
- Measure Equipment :
L & Q : Agilent E4991A+Agilent HP16197A
SRF : Agilent E4991A
RDC : HP4338B or Chroma 16502

Test Instruments : Agilent E4991A Material/Impedance Analyzer

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.

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