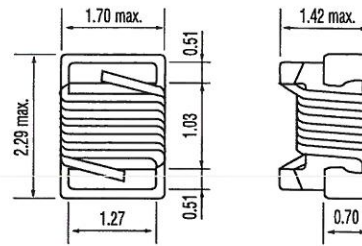


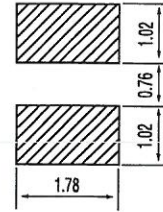
The TOKO LLQ2012 Series is a wirewound ceramic chip inductor that conforms to the EIA standard 0805 footprint and delivers superb Q and SRF performance with high inductance tolerance.



Dimensions



Recommended Footprint

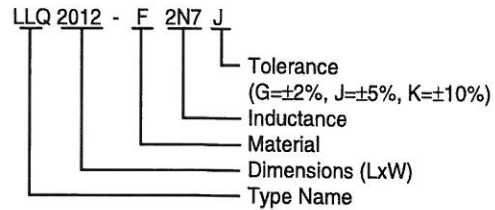


Unit: mm
Tolerance: ±0.1mm

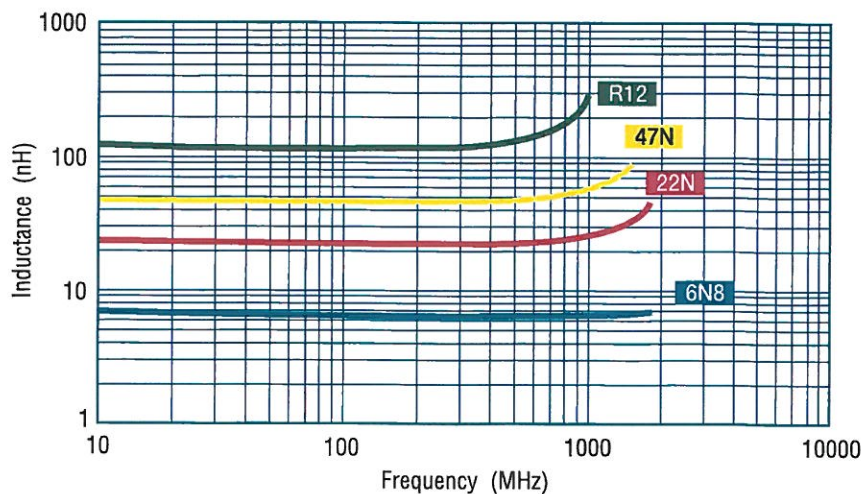
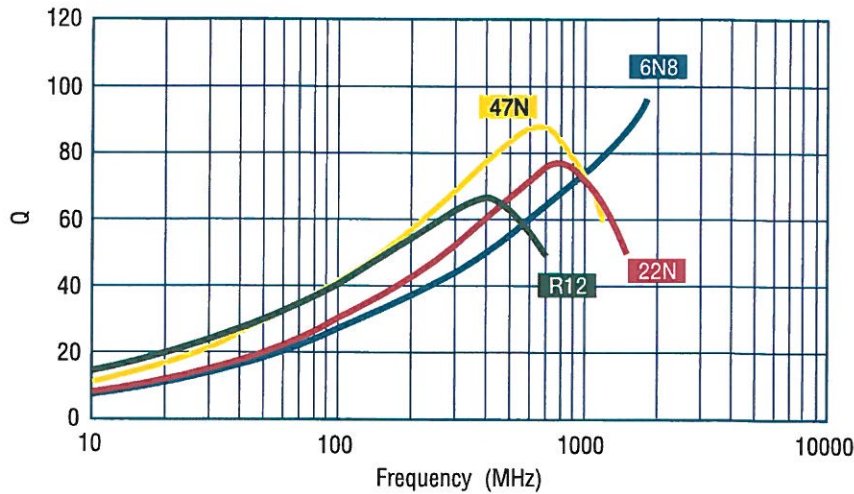
Features

- Inductance tolerance: ±2%, ±5%, ±10%
- EIA standard 0805 footprint (2.0mm x 1.2mm)
- Lead-free terminations
- High Q
- High self-resonant frequency
- Operating temperature: -40°C to +125°C
- Packaged on tape and reel in 3,000 piece quantity
- Reflow solderable

Part Numbering



ELECTRICAL CHARACTERISTICS



STANDARD PARTS SELECTION GUIDE

TYPE LLQ2012

| TOKO Part Number | Inductance | | | Q | | Self Resonant Frequency (MHz) min. | DC Resistance (Ω) max. | IDC (mA) max. |
|---------------------|------------|-----------|---------------------|-------------|---------------------|---|---------------------------------------|---------------------|
| | Lo (nH) | Tolerance | Test Freq. (MHz) | Q (min.) | Test Freq. (MHz) | | | |
| LLQ2012-F2N7_* | 2.7 | J, K | 250 | 80 | 1500 | 7900 | 0.06 | 800 |
| LLQ2012-F3N0_* | 3.0 | J, K | 250 | 65 | 1500 | 7900 | 0.06 | 800 |
| LLQ2012-F3N3_* | 3.3 | J, K | 250 | 50 | 1500 | 7900 | 0.08 | 600 |
| LLQ2012-F5N6_* | 5.6 | J, K | 250 | 65 | 1000 | 5500 | 0.08 | 600 |
| LLQ2012-F6N8_* | 6.8 | J, K | 250 | 50 | 1000 | 5500 | 0.11 | 600 |
| LLQ2012-F7N5_* | 7.5 | J, K | 250 | 50 | 1000 | 4500 | 0.14 | 600 |
| LLQ2012-F8N2_* | 8.2 | G, J, K | 250 | 50 | 1000 | 4700 | 0.12 | 600 |
| LLQ2012-F10N_* | 10 | G, J, K | 250 | 60 | 500 | 4200 | 0.10 | 600 |
| LLQ2012-F12N_* | 12 | G, J, K | 250 | 50 | 500 | 4000 | 0.15 | 600 |
| LLQ2012-F15N_* | 15 | G, J, K | 250 | 50 | 500 | 3400 | 0.17 | 600 |
| LLQ2012-F18N_* | 18 | G, J, K | 250 | 50 | 500 | 3300 | 0.20 | 600 |
| LLQ2012-F22N_* | 22 | G, J, K | 250 | 55 | 500 | 2600 | 0.22 | 500 |
| LLQ2012-F24N_* | 24 | G, J, K | 250 | 50 | 500 | 2000 | 0.22 | 500 |
| LLQ2012-F27N_* | 27 | G, J, K | 250 | 55 | 500 | 2500 | 0.25 | 500 |
| LLQ2012-F33N_* | 33 | G, J, K | 250 | 60 | 500 | 2050 | 0.27 | 500 |
| LLQ2012-F36N_* | 36 | G, J, K | 250 | 55 | 500 | 1700 | 0.27 | 500 |
| LLQ2012-F39N_* | 39 | G, J, K | 250 | 60 | 500 | 2000 | 0.29 | 500 |
| LLQ2012-F43N_* | 43 | G, J, K | 200 | 60 | 500 | 1650 | 0.34 | 500 |
| LLQ2012-F47N_* | 47 | G, J, K | 200 | 60 | 500 | 1650 | 0.31 | 500 |
| LLQ2012-F56N_* | 56 | G, J, K | 200 | 60 | 500 | 1550 | 0.34 | 500 |
| LLQ2012-F68N_* | 68 | G, J, K | 200 | 60 | 500 | 1450 | 0.38 | 500 |
| LLQ2012-F82N_* | 82 | G, J, K | 150 | 65 | 500 | 1300 | 0.42 | 400 |
| LLQ2012-F91N_* | 91 | G, J, K | 150 | 65 | 500 | 1200 | 0.48 | 400 |
| LLQ2012-FR10_* | 100 | G, J, K | 150 | 65 | 500 | 1200 | 0.46 | 400 |
| LLQ2012-FR11_* | 110 | G, J, K | 150 | 50 | 250 | 1000 | 0.48 | 400 |
| LLQ2012-FR12_* | 120 | G, J, K | 150 | 50 | 250 | 1100 | 0.51 | 400 |
| LLQ2012-FR15_* | 150 | G, J, K | 100 | 50 | 250 | 920 | 0.56 | 400 |
| LLQ2012-FR18_* | 180 | G, J, K | 100 | 50 | 250 | 870 | 0.64 | 400 |
| LLQ2012-FR22_* | 220 | G, J, K | 100 | 50 | 250 | 850 | 0.70 | 400 |
| LLQ2012-FR24_* | 240 | G, J, K | 100 | 44 | 250 | 690 | 1.00 | 350 |
| LLQ2012-FR27_* | 270 | G, J, K | 100 | 48 | 250 | 650 | 1.00 | 350 |
| LLQ2012-FR33_* | 330 | G, J, K | 100 | 48 | 250 | 600 | 1.40 | 310 |
| LLQ2012-FR39_* | 390 | G, J, K | 100 | 48 | 250 | 560 | 1.50 | 290 |
| LLQ2012-FR47_* | 470 | J, K | 50 | 33 | 100 | 375 | 1.76 | 250 |
| LLQ2012-FR56_* | 560 | J, K | 25 | 23 | 50 | 340 | 1.90 | 230 |
| LLQ2012-FR68_* | 680 | J, K | 25 | 23 | 50 | 188 | 2.20 | 190 |
| LLQ2012-FR82_* | 820 | J, K | 25 | 23 | 50 | 215 | 2.35 | 180 |

* Add tolerance to part number: G = $\pm 2\%$, J = $\pm 5\%$, K = $\pm 10\%$

Testing Conditions: L,Q: Agilent 4287A (Test fixture Agilent 16193A). SRF: Agilent 8720ES. RDC: Agilent 34420A. IDC: Agilent 34401A