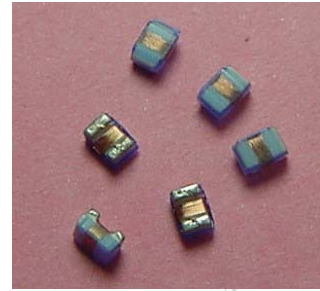


Wire Wound Ceramic High Frequency Inductors

Features

- High Q and high SRF
- Excellent solderability and resistance to soldering heat.
- Suitable for flow and reflow soldering.
- Good dimensions, high reliability, and easy surface mount assembly.
- Wide range of inductance value for flexible needs.



Applications

- For high-frequency applications such as:
Mobile phone, cordless phone, Pager

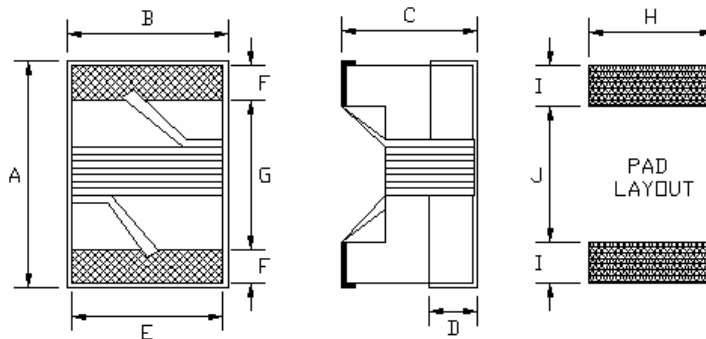
Part Number Systems

WHI - 0402 - 1N8 - K - LF

(1) (2) (3) (4) (5)

| | | | |
|-----|-------------------------------|-----|---|
| (1) | Product series | (2) | Size |
| (3) | Inductance Value: 1N8 = 1.8nH | (4) | Inductance Tolerance: G = ± 2%, J = ± 5%, K = ± 10%, M = ± 20% |
| (5) | ROHs Compliant | | |

Shape And Dimensions



Unit: mm

| Type | A (Max) | B (Max) | C (Max) | D Ref. | E Ref. | F Ref. | G Ref. | H Ref. | I Ref. | J Ref. |
|------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| 0402 | 1.27 | 0.76 | 0.66 | 0.15 | 0.51 | 0.23 | 0.56 | 0.66 | 0.50 | 0.46 |

Wire Wound Ceramic High Frequency Inductors

| WHI-0402-Series | | | | ELECTRICAL CHARACTERISTICS | | |
|------------------|-----------------|-----------|--------------|----------------------------|------------------|----------|
| Part Number | Inductance (nH) | Tolerance | Q Min | SRF (GHz) | Rdc (Ω) | Idc (mA) |
| | | | | Min | Max | Max |
| WHI-0402-1N0J-LF | 1.0 @ 250 MHz | J, K | 16 @ 250 MHz | 12.70 | 0.045 | 1360 |
| WHI-0402-1N9J-LF | 1.9 @ 250 MHz | J, K | 16 @ 250 MHz | 11.30 | 0.070 | 1040 |
| WHI-0402-2N0J-LF | 2.0 @ 250 MHz | J, K | 16 @ 250 MHz | 11.10 | 0.070 | 1040 |
| WHI-0402-2N2J-LF | 2.2 @ 250 MHz | J, K | 19 @ 250 MHz | 10.80 | 0.070 | 960 |
| WHI-0402-2N4J-LF | 2.4 @ 250 MHz | J, K | 15 @ 250 MHz | 10.50 | 0.068 | 790 |
| WHI-0402-2N7J-LF | 2.7 @ 250 MHz | J, K | 16 @ 250 MHz | 10.40 | 0.120 | 640 |
| WHI-0402-3N3J-LF | 3.3 @ 250 MHz | J, K | 19 @ 250 MHz | 7.00 | 0.066 | 840 |
| WHI-0402-3N6J-LF | 3.6 @ 250 MHz | J, K | 19 @ 250 MHz | 6.80 | 0.066 | 840 |
| WHI-0402-3N9J-LF | 3.9 @ 250 MHz | J, K | 19 @ 250 MHz | 6.00 | 0.066 | 840 |
| WHI-0402-4N3J-LF | 4.3 @ 250 MHz | J, K | 18 @ 250 MHz | 6.00 | 0.091 | 700 |
| WHI-0402-4N7J-LF | 4.7 @ 250 MHz | J, K | 15 @ 250 MHz | 4.77 | 0.130 | 640 |
| WHI-0402-5N1J-LF | 5.1 @ 250 MHz | J, K | 20 @ 250 MHz | 4.80 | 0.083 | 800 |
| WHI-0402-5N6J-LF | 5.6 @ 250 MHz | J, K | 20 @ 250 MHz | 4.80 | 0.083 | 760 |
| WHI-0402-6N2J-LF | 6.2 @ 250 MHz | J, K | 20 @ 250 MHz | 4.80 | 0.083 | 760 |
| WHI-0402-6N8J-LF | 6.8 @ 250 MHz | J, K | 20 @ 250 MHz | 4.80 | 0.083 | 680 |
| WHI-0402-7N5J-LF | 7.5 @ 250 MHz | G, J, K | 22 @ 250 MHz | 4.80 | 0.100 | 680 |
| WHI-0402-8N2J-LF | 8.2 @ 250 MHz | G, J, K | 22 @ 250 MHz | 4.40 | 0.100 | 680 |
| WHI-0402-8N7J-LF | 8.7 @ 250 MHz | G, J, K | 18 @ 250 MHz | 4.10 | 0.200 | 480 |
| WHI-0402-9N0J-LF | 9.0 @ 250 MHz | G, J, K | 22 @ 250 MHz | 4.16 | 0.100 | 680 |
| WHI-0402-9N5J-LF | 9.5 @ 250 MHz | G, J, K | 18 @ 250 MHz | 4.00 | 0.200 | 480 |
| WHI-0402-10NJ-LF | 10 @ 250 MHz | G, J, K | 21 @ 250 MHz | 3.90 | 0.200 | 480 |
| WHI-0402-11NJ-LF | 11 @ 250 MHz | G, J, K | 24 @ 250 MHz | 3.68 | 0.120 | 640 |
| WHI-0402-12NJ-LF | 12 @ 250 MHz | G, J, K | 24 @ 250 MHz | 3.60 | 0.120 | 640 |
| WHI-0402-13NJ-LF | 13 @ 250 MHz | G, J, K | 24 @ 250 MHz | 3.45 | 0.210 | 440 |
| WHI-0402-15NJ-LF | 15 @ 250 MHz | G, J, K | 24 @ 250 MHz | 3.28 | 0.170 | 560 |
| WHI-0402-16NJ-LF | 16 @ 250 MHz | G, J, K | 24 @ 250 MHz | 3.10 | 0.220 | 560 |
| WHI-0402-18NJ-LF | 18 @ 250 MHz | G, J, K | 24 @ 250 MHz | 3.10 | 0.230 | 420 |
| WHI-0402-19NJ-LF | 19 @ 250 MHz | G, J, K | 24 @ 250 MHz | 3.04 | 0.200 | 480 |
| WHI-0402-20NJ-LF | 20 @ 250 MHz | G, J, K | 25 @ 250 MHz | 3.00 | 0.250 | 420 |
| WHI-0402-22NJ-LF | 22 @ 250 MHz | G, J, K | 25 @ 250 MHz | 2.80 | 0.300 | 400 |
| WHI-0402-23NJ-LF | 23 @ 250 MHz | G, J, K | 22 @ 250 MHz | 2.72 | 0.300 | 400 |
| WHI-0402-24NJ-LF | 24 @ 250 MHz | G, J, K | 25 @ 250 MHz | 2.70 | 0.300 | 400 |
| WHI-0402-27NJ-LF | 27 @ 250 MHz | G, J, K | 24 @ 250 MHz | 2.48 | 0.300 | 400 |

Wire Wound Ceramic High Frequency Inductors

| WHI-0402-Series | | | ELECTRICAL CHARACTERISTICS | | | |
|------------------|-----------------|-----------|----------------------------|-----------|------------------|----------|
| Part Number | Inductance (nH) | Tolerance | Q Min | SRF (GHz) | Rdc (Ω) | Idc (mA) |
| | | | | Min | Max | Max |
| WHI-0402-30NJ-LF | 30 @ 250 MHz | G, J, K | 25 @ 250 MHz | 2.35 | 0.300 | 400 |
| WHI-0402-33NJ-LF | 33 @ 250 MHz | G, J, K | 24 @ 250 MHz | 2.35 | 0.300 | 400 |
| WHI-0402-36NJ-LF | 36 @ 250 MHz | G, J, K | 24 @ 250 MHz | 2.32 | 0.440 | 320 |
| WHI-0402-39NJ-LF | 39 @ 250 MHz | G, J, K | 25 @ 250 MHz | 2.10 | 0.550 | 200 |
| WHI-0402-40NJ-LF | 40 @ 250 MHz | G, J, K | 24 @ 250 MHz | 2.24 | 0.440 | 320 |
| WHI-0402-43NJ-LF | 43 @ 250 MHz | G, J, K | 25 @ 250 MHz | 2.03 | 0.810 | 100 |
| WHI-0402-47NJ-LF | 47 @ 250 MHz | G, J, K | 20 @ 250 MHz | 2.10 | 0.830 | 150 |
| WHI-0402-51NJ-LF | 51 @ 250 MHz | G, J, K | 25 @ 250 MHz | 1.75 | 0.820 | 100 |
| WHI-0402-56NJ-LF | 56 @ 250 MHz | G, J, K | 22 @ 250 MHz | 1.76 | 0.970 | 100 |
| WHI-0402-68NJ-LF | 68 @ 250 MHz | G, J, K | 22 @ 250 MHz | 1.62 | 1.120 | 100 |

* All specifications are subjected to change without prior notice.