



Frontier Electronics Corp.

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Radial Leads Inductors (Choke Coil)—18403 series

A. Specifications:

| Part Number | L (uH) @ 1KHz | Q Min. | Test Freq. (MHz) | SRF Min. (MHz) | DCR (Ω) Max. | Rated Current (A) Max. | Type |
|-------------|------------------|--------|---------------------|-------------------|-----------------|---------------------------|------|
| 184031R0M | 1.0 | 20 | 7.9 | 85 | 0.004 | 10.00 | I |
| 184031R5M | 1.5 | 20 | 7.9 | 64 | 0.005 | 8.30 | I |
| 184032R2M | 2.2 | 20 | 7.9 | 48 | 0.006 | 6.90 | I |
| 184033R3M | 3.3 | 20 | 7.9 | 36 | 0.008 | 5.60 | I |
| 184034R7M | 4.7 | 20 | 7.9 | 28 | 0.009 | 4.70 | I |
| 184036R8M | 6.8 | 20 | 7.9 | 22 | 0.012 | 3.90 | I |
| 18403100K | 10 | 20 | 2.5 | 16 | 0.016 | 3.20 | I |
| 18403120K | 12 | 20 | 2.5 | 14 | 0.018 | 2.90 | I |
| 18403150K | 15 | 20 | 2.5 | 12 | 0.020 | 2.60 | I |
| 18403180K | 18 | 20 | 2.5 | 11 | 0.025 | 2.40 | I |
| 18403220K | 22 | 20 | 2.5 | 10 | 0.030 | 2.20 | I |
| 18403270K | 27 | 20 | 2.5 | 9.0 | 0.040 | 2.00 | I |
| 18403330K | 33 | 20 | 2.5 | 8.0 | 0.050 | 1.80 | I |
| 18403390K | 39 | 20 | 2.5 | 7.0 | 0.060 | 1.65 | I |
| 18403470K | 47 | 20 | 2.5 | 6.0 | 0.070 | 1.50 | I |
| 18403560K | 56 | 20 | 2.5 | 5.5 | 0.080 | 1.35 | I |
| 18403680K | 68 | 20 | 2.5 | 5.0 | 0.10 | 1.20 | I |
| 18403820K | 82 | 20 | 2.5 | 4.5 | 0.12 | 1.10 | II |
| 18403101K | 100 | 20 | 0.79 | 4.0 | 0.14 | 1.00 | II |
| 18403121K | 120 | 20 | 0.79 | 3.5 | 0.18 | 0.90 | II |
| 18403151K | 150 | 20 | 0.79 | 3.0 | 0.22 | 0.82 | II |
| 18403181K | 180 | 20 | 0.79 | 2.8 | 0.25 | 0.75 | II |
| 18403221K | 220 | 20 | 0.79 | 2.5 | 0.31 | 0.68 | II |
| 18403271K | 270 | 20 | 0.79 | 2.2 | 0.36 | 0.61 | II |
| 18403331K | 330 | 20 | 0.79 | 2.0 | 0.42 | 0.55 | II |
| 18403391K | 390 | 20 | 0.79 | 1.8 | 0.48 | 0.50 | II |
| 18403471K | 470 | 15 | 0.79 | 1.6 | 0.52 | 0.46 | II |
| 18403561K | 560 | 15 | 0.79 | 1.4 | 0.65 | 0.42 | II |
| 18403681K | 680 | 15 | 0.79 | 1.3 | 0.80 | 0.38 | II |
| 18403821K | 820 | 15 | 0.79 | 1.2 | 1.0 | 0.34 | II |
| 18403102K | 1000 | 20 | 0.25 | 1.00 | 1.5 | 0.31 | II |
| 18403122K | 1200 | 20 | 0.25 | 0.90 | 1.8 | 0.28 | II |
| 18403152K | 1500 | 20 | 0.25 | 0.85 | 2.0 | 0.25 | II |
| 18403182K | 1800 | 20 | 0.25 | 0.80 | 2.5 | 0.23 | II |
| 18403222K | 2200 | 20 | 0.25 | 0.75 | 3.0 | 0.21 | II |
| 18403272K | 2700 | 20 | 0.25 | 0.70 | 3.5 | 0.19 | II |
| 18403332K | 3300 | 20 | 0.25 | 0.65 | 4.0 | 0.17 | II |
| 18403392K | 3900 | 20 | 0.25 | 0.60 | 5.0 | 0.15 | II |
| 18403472K | 4700 | 20 | 0.25 | 0.55 | 6.0 | 0.14 | II |
| 18403562K | 5600 | 20 | 0.25 | 0.50 | 7.5 | 0.13 | II |
| 18403682K | 6800 | 20 | 0.25 | 0.45 | 9.5 | 0.12 | II |
| 18403822K | 8200 | 20 | 0.25 | 0.40 | 11.0 | 0.11 | II |
| 18403103K | 10000 | 50 | 0.079 | 0.35 | 12.0 | 0.10 | II |
| 18403123K | 12000 | 50 | 0.079 | 0.30 | 13.5 | 0.09 | II |
| 18403153K | 15000 | 50 | 0.079 | 0.25 | 15.0 | 0.08 | II |

★ Custom specifications are available.

Note: **RoHS** compliant; for the **ROHS** parts, we add "**-LFR**" at the end of the P/N.



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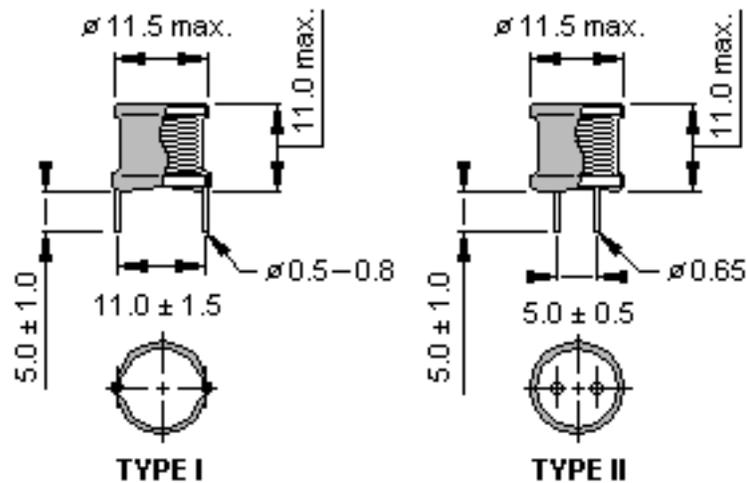
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Radial Leads Inductors (Choke Coil)—18403 series

B. Mechanical Dimensions:



C. General Information:

1. Inductance Tolerance: M:±20%, K: ±10%.
2. Inductance (Current) ranges: 1.0uH (10A) - 15000uH (80mA)
3. DCR: from 0.004 - 15.0 Ohms.
4. Operating temperature: -20°C to +85°C.
5. Temperature rise: 25°C Max.
6. Ambient temperature: 60°C Max.
7. Test condition: 1 KHz.
8. Test equipment:
 - L: HP4276A LCZ Meter.
 - Q: HP4342A at specified frequency.
 - DCR: Milli-Ohm meter.
 - SRF: HP4191A.

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