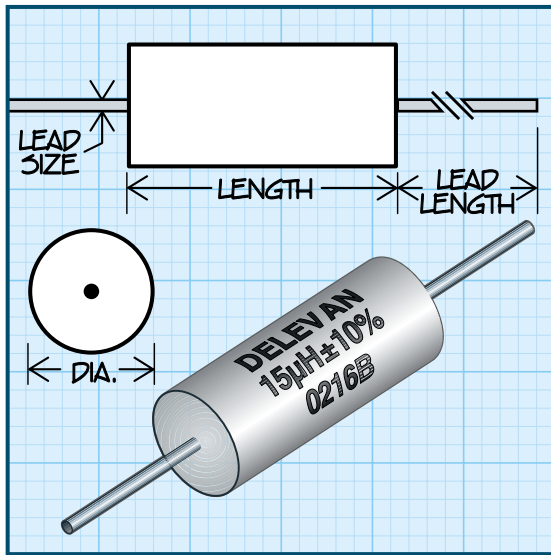


Series 2150

Molded Unshielded RF Coils



Military Specifications

MS90542 (LT4K); MS14052(LT10K)

Physical Parameters

| | Inches | Millimeters |
|-------------|---------------|---------------|
| Length | 0.560 ± .0010 | 14.22 ± 0.25 |
| Diameter | 0.220 ± 0.010 | 5.59 ± 0.25 |
| Lead Size | | |
| AWG #22 TCW | 0.025 ± 0.002 | 0.635 ± 0.051 |
| Lead Length | 1.44 ± 0.12 | 36.58 ± 3.05 |

Current Rating at 90°C Ambient

LT4K 35°C Rise
 LT10K 15°C Rise

Operating Temperature

LT4K -55°C to +125°C
 LT10K -55°C to +105°C

Maximum Power Dissipation at 90°C

LT4K .427 W
 LT10K .183 W

Weight Max. (Grams) 1.5

Packaging Tape & reel: 12" reel, 1000 pieces max.;
 14" reel, 1500 pieces max. For additional packaging options, see page 146.

Made in the U.S.A.

| MS90542- SERIES 2150 PHENOLIC CORE (LT4K) | | | | | | | |
|---|------------|-----------------------|-----------|----------------------|-------------------|------------------------------|-----------------------------|
| PART NUMBER | MIL DASH # | INDUCTANCE (µH) ± 10% | Q MINIMUM | TEST FREQUENCY (MHz) | SRF MINIMUM (MHz) | DC RESISTANCE MAXIMUM (OHMS) | CURRENT RATING MAXIMUM (mA) |
| 2150-00K | 1 | 0.47 | 65 | 25.0 | 300 | 0.06 | 2270 |
| 2150-01K | 2 | 0.56 | 65 | 25.0 | 270 | 0.07 | 2100 |
| 2150-02K | 3 | 0.68 | 65 | 25.0 | 240 | 0.08 | 1960 |
| 2150-03K | 4 | 0.82 | 65 | 25.0 | 220 | 0.11 | 1670 |
| 2150-04K | 5 | 1.00 | 65 | 25.0 | 200 | 0.14 | 1480 |
| 2150-05K | 6 | 1.20 | 40 | 7.9 | 180 | 0.19 | 1270 |
| 2150-06K | 7 | 1.50 | 40 | 7.9 | 160 | 0.28 | 1050 |
| 2150-07K | 8 | 1.80 | 40 | 7.9 | 150 | 0.37 | 915 |
| 2150-08K | 9 | 2.20 | 40 | 7.9 | 135 | 0.50 | 785 |
| 2150-10K | 10 | 2.70 | 40 | 7.9 | 120 | 0.65 | 690 |
| 2150-12K | 11 | 3.30 | 40 | 7.9 | 105 | 1.00 | 555 |
| 2150-14K | 12 | 3.90 | 40 | 7.9 | 100 | 1.20 | 505 |
| 2150-16K | 13 | 4.70 | 40 | 7.9 | 90 | 1.80 | 415 |
| MS14052- SERIES 2150 IRON CORE (LT10K) | | | | | | | |
| PART NUMBER | MIL DASH # | INDUCTANCE (µH) ± 10% | Q MINIMUM | TEST FREQUENCY (MHz) | SRF MINIMUM (MHz) | DC RESISTANCE MAXIMUM (OHMS) | CURRENT RATING MAXIMUM (mA) |
| 2150-18K | 1 | 5.60 | 35 | 7.9 | 55 | 0.13 | 1040 |
| 2150-20K | 2 | 6.80 | 35 | 7.9 | 50 | 0.20 | 835 |
| 2150-22K | 3 | 8.20 | 35 | 7.9 | 44 | 0.22 | 795 |
| 2150-24K | 4 | 10.0 | 35 | 7.9 | 42 | 0.26 | 735 |
| 2150-26K | 5 | 12.0 | 45 | 2.5 | 34 | 0.45 | 560 |
| 2150-28K | 6 | 15.0 | 45 | 2.5 | 32 | 0.52 | 520 |
| 2150-30K | 7 | 18.0 | 50 | 2.5 | 28 | 0.70 | 445 |
| 2150-32K | 8 | 22.0 | 60 | 2.5 | 24 | 1.00 | 375 |
| 2150-34K | 9 | 27.0 | 60 | 2.5 | 22 | 1.30 | 330 |
| 2150-36K | 10 | 33.0 | 60 | 2.5 | 20 | 1.50 | 305 |
| 2150-38K | 11 | 39.0 | 70 | 2.5 | 18 | 2.00 | 264 |

Parts listed above are QPL/MIL qualified

Optional Tolerances: J = 5% H = 3% G = 2% F = 1%