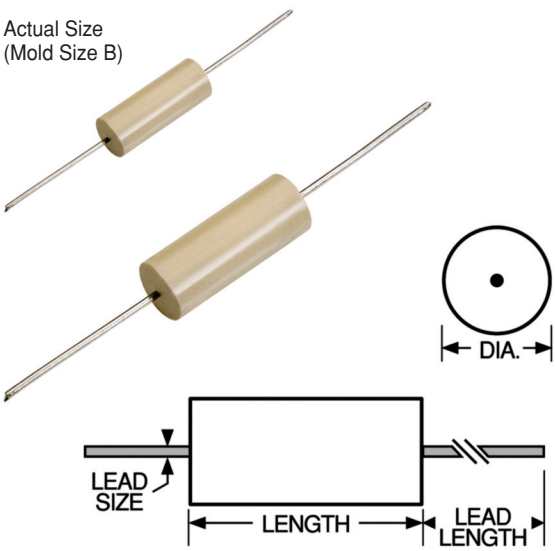


SERIES 2500R 2500 

Molded Unshielded RF Coils



Military Specifications MS90539 (LT10K); MS90540 (LT10K); MS90541 (LT10K); g No MS # Issued

Physical Parameters

| Mold Size | A | B | C |
|----------------------------------|-------|-------|-------|
| Length | | | |
| Inches ± .010 | 0.440 | 0.560 | 0.740 |
| mm ± .25 | 11.18 | 14.22 | 18.80 |
| Diameter | | | |
| Inches ± .010 | 0.190 | 0.215 | 0.240 |
| mm ± .25 | 4.83 | 5.46 | 6.10 |
| Lead Type & Size | | | |
| AWG # | #22 | #21 | #20 |
| TCW ± .002 Inches | 0.025 | 0.028 | 0.032 |
| [TCW ± .051 mm] | 0.635 | 0.711 | 0.813 |
| Lead Length | | | |
| Inches ± .12 | 1.44 | 1.44 | 1.44 |
| mm ± 3.05 | 36.58 | 36.58 | 36.58 |
| Maximum Power Dissipation | | | |
| at 90°C W | 0.166 | 0.182 | 0.213 |
| Weight Max. | | | |
| (Grams) | 0.95 | 1.5 | 2.5 |

Current Rating at 90°C Ambient 15°C Rise

Operating Temperature Range -55°C to +105°C
Core Material Iron (LT10K)

Marking DELEVAN; inductance with units and tolerance; date code (YYWWL). Note: An R before the date code indicates a RoHS component.
Example: 2500-16J

| | |
|---------------|-----------------|
| <i>Front:</i> | <i>Reverse:</i> |
| DELEVAN | 560uH±5% |
| 560uH±5% | 0824C |

| DASH NUMBER* | MIL DASH # | INDUCTANCE (µH) ±5% | TEST FREQUENCY (MHz) | Q MINIMUM | SRF MINIMUM (MHz) | DC RESISTANCE MAXIMUM (OHMS) | CURRENT RATING MAXIMUM (mA) | MOLD SIZE |
|--------------|------------|---------------------|----------------------|-----------|-------------------|------------------------------|-----------------------------|-----------|
|--------------|------------|---------------------|----------------------|-----------|-------------------|------------------------------|-----------------------------|-----------|

| MS90539 - SERIES 2500 IRON CORE (LT10K) | | | | | | | | |
|---|----|------|----|-------|------|------|-----|---|
| -00J | 1 | 270 | 65 | 0.790 | 5.60 | 8.2 | 126 | A |
| -02J | 2 | 300 | 65 | 0.790 | 5.3 | 8.7 | 122 | A |
| -04J | 3 | 330 | 65 | 0.790 | 5.0 | 9.1 | 120 | A |
| -06J | 4 | 360 | 65 | 0.790 | 4.7 | 9.6 | 115 | A |
| -08J | 5 | 390 | 65 | 0.790 | 4.5 | 10.0 | 114 | A |
| -10J | 6 | 430 | 65 | 0.790 | 4.3 | 10.6 | 111 | A |
| -12J | 7 | 470 | 65 | 0.790 | 4.0 | 11.0 | 108 | A |
| -14J | 8 | 500 | 65 | 0.790 | 3.7 | 11.3 | 106 | A |
| -15J | 8 | 510 | 65 | 0.790 | 3.8 | 11.6 | 105 | A |
| -16J | 9 | 560 | 65 | 0.790 | 3.6 | 12.3 | 104 | A |
| -18J | 10 | 620 | 60 | 0.790 | 3.5 | 13.0 | 101 | A |
| -20J | 11 | 680 | 60 | 0.790 | 3.4 | 13.7 | 97 | A |
| -22J | 12 | 750 | 60 | 0.790 | 3.3 | 14.4 | 95 | A |
| -24J | 13 | 820 | 60 | 0.790 | 3.1 | 15.1 | 92 | A |
| -26J | 14 | 910 | 60 | 0.790 | 2.9 | 15.8 | 91 | A |
| -28J | 15 | 1000 | 60 | 0.790 | 2.8 | 16.5 | 88 | A |

| MS90540 - SERIES 2500 IRON CORE (LT10K) | | | | | | | | |
|---|----|------|----|-------|-----|------|----|---|
| -30J | 1 | 1100 | 60 | 0.250 | 2.8 | 21.0 | 81 | B |
| -32J | 2 | 1200 | 60 | 0.250 | 2.7 | 22.0 | 79 | B |
| -34J | 3 | 1300 | 60 | 0.250 | 2.6 | 23.0 | 78 | B |
| -36J | 4 | 1500 | 65 | 0.250 | 2.4 | 25.0 | 76 | B |
| -38J | 5 | 1600 | 65 | 0.250 | 2.3 | 26.0 | 74 | B |
| -40J | 6 | 1800 | 65 | 0.250 | 2.2 | 28.0 | 71 | B |
| -42J | 7 | 2000 | 65 | 0.250 | 2.1 | 29.0 | 69 | B |
| -44J | 8 | 2200 | 70 | 0.250 | 2.0 | 30.0 | 68 | B |
| -46J | 9 | 2400 | 70 | 0.250 | 1.9 | 31.0 | 67 | B |
| -48J | 10 | 2700 | 70 | 0.250 | 1.8 | 33.0 | 65 | B |
| -50J | 11 | 3000 | 70 | 0.250 | 1.7 | 35.0 | 63 | B |
| -52J | 12 | 3300 | 70 | 0.250 | 1.6 | 38.0 | 61 | B |
| -54J | 13 | 3600 | 70 | 0.250 | 1.5 | 40.0 | 59 | B |

| MS90541 - SERIES 2500 IRON CORE (LT10K) | | | | | | | | |
|---|----|-------|----|-------|------|------|----|---|
| -56J | 1 | 3900 | 80 | 0.250 | 1.45 | 44.0 | 62 | C |
| -58J | 2 | 4300 | 80 | 0.250 | 1.40 | 46.0 | 60 | C |
| -60J | 3 | 4700 | 80 | 0.250 | 1.35 | 48.0 | 59 | C |
| -62J | 4 | 5000 | 80 | 0.250 | 1.30 | 50.0 | 58 | C |
| -63J | 5 | 5100 | 80 | 0.250 | 1.30 | 50.0 | 58 | C |
| -64J | 5 | 5600 | 80 | 0.250 | 1.25 | 53.0 | 56 | C |
| -66J | 6 | 6200 | 80 | 0.250 | 1.20 | 56.0 | 55 | C |
| -68J | 7 | 6800 | 80 | 0.250 | 1.15 | 59.0 | 54 | C |
| -70J | 8 | 7500 | 80 | 0.250 | 1.10 | 62.0 | 52 | C |
| -72J | 9 | 8200 | 80 | 0.250 | 1.05 | 65.0 | 51 | C |
| -74J | 10 | 9100 | 80 | 0.250 | 1.0 | 68.0 | 49 | C |
| -76J | 11 | 10000 | 80 | 0.250 | 0.95 | 72.0 | 48 | C |

Parts listed above are QPL/MIL qualified

Optional Tolerances: H = 3% G = 2% F = 1%
*Complete part # must include series # PLUS the dash #

Packaging Tape & reel: Mold sizes "A" and "C": 12" reel, 2500 pieces max.; 14" reel, 3000 pieces max.
Mold size "B": 12" reel, 1000 pieces max.; 14" reel, 1500 pieces max.
Made in the U.S.A.