

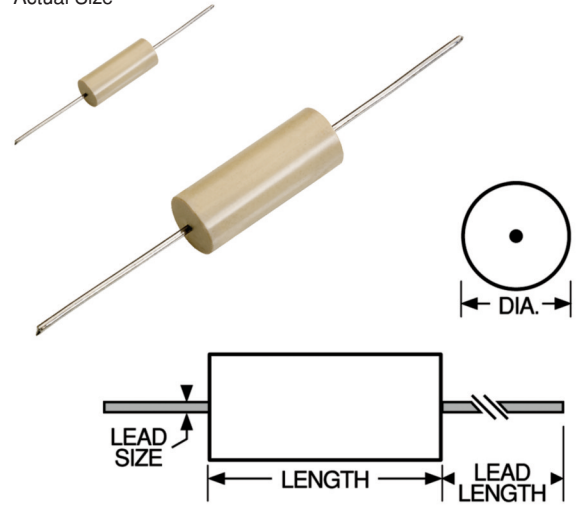
SERIES

1537R
1537



Molded Unshielded RF Coils

Actual Size



Military Specifications MS14046 (LT10K); MS18130 (LT4K); MS90538 (LT10K);
g No MS # Issued

Physical Parameters

| | Inches | Millimeters |
|-------------|---------------|---------------|
| Length | 0.375 ± 0.010 | 9.53 ± 0.25 |
| Diameter | 0.156 ± 0.010 | 3.96 ± 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 Range

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

Maximum Power Dissipation at 90°C

LT4K 0.312 W
LT10K 0.134 W

Weight Max. (Grams) 0.9

• For in-between values, see Series 511 (page 44)

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

Example: 1537-00J

| | |
|---------------|-----------------|
| <i>Front:</i> | <i>Reverse:</i> |
| DELEVAN | .15uH±5% |
| .15uH±5% | 0841A |

Packaging Tape & reel: 12" reel, 2500 pieces max.; 14" reel, 4000 pieces max.

Made in the U.S.A.

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

| MS18130- SERIES 1537 PHENOLIC CORE (LT4K) | | | | | | | | |
|---|----|-------|-------|----|------|-------|-------|------|
| -00M | 1 | 0.15 | ± 20% | 50 | 25.0 | 525.0 | 0.03 | 2740 |
| -02M | 2 | 0.22 | ± 20% | 50 | 25.0 | 450.0 | 0.055 | 2020 |
| -04M | 3 | 0.33 | ± 20% | 45 | 25.0 | 360.0 | 0.09 | 1580 |
| -06M | 4 | 0.47 | ± 20% | 45 | 25.0 | 310.0 | 0.12 | 1370 |
| -07K | 5 | 0.56 | ± 10% | 50 | 25.0 | 280.0 | 0.135 | 1290 |
| -08K | 6 | 0.68 | ± 10% | 50 | 25.0 | 250.0 | 0.15 | 1220 |
| -10K | 7 | 0.82 | ± 10% | 50 | 25.0 | 220.0 | 0.22 | 1020 |
| -12K | 8 | 1.00 | ± 10% | 50 | 25.0 | 200.0 | 0.29 | 880 |
| -14K | 9 | 1.20 | ± 10% | 33 | 7.9 | 180.0 | 0.42 | 730 |
| -16K | 10 | 1.50 | ± 10% | 33 | 7.9 | 160.0 | 0.50 | 670 |
| -18K | 11 | 1.80 | ± 10% | 33 | 7.9 | 150.0 | 0.65 | 590 |
| -20K | 12 | 2.20 | ± 10% | 33 | 7.9 | 135.0 | 0.95 | 485 |
| -22K | 13 | 2.70 | ± 10% | 33 | 7.9 | 120.0 | 1.20 | 430 |
| -24K | 14 | 3.30 | ± 10% | 33 | 7.9 | 110.0 | 2.00 | 335 |
| -26K | 15 | 3.90 | ± 10% | 33 | 7.9 | 100.0 | 2.30 | 310 |
| -28K | 16 | 4.70 | ± 10% | 33 | 7.9 | 90.0 | 2.60 | 294 |
| MS14046- SERIES 1537 IRON CORE (LT10K) | | | | | | | | |
| -30K | 1 | 5.60 | ± 10% | 45 | 7.9 | 60.0 | 0.32 | 565 |
| -32K | 2 | 6.80 | ± 10% | 50 | 7.9 | 55.0 | 0.50 | 450 |
| -34K | 3 | 8.20 | ± 10% | 50 | 7.9 | 50.0 | 0.60 | 410 |
| -36K | 4 | 10.0 | ± 10% | 55 | 7.9 | 45.0 | 0.90 | 335 |
| -38K | 5 | 12.0 | ± 10% | 65 | 2.5 | 42.0 | 1.10 | 305 |
| -40K | 6 | 15.0 | ± 10% | 65 | 2.5 | 40.0 | 1.40 | 271 |
| -42K | 7 | 18.0 | ± 10% | 75 | 2.5 | 34.0 | 2.25 | 213 |
| -44K | 8 | 22.0 | ± 10% | 75 | 2.5 | 30.0 | 2.50 | 202 |
| -46J | ● | 24.0 | ± 5% | 60 | 2.5 | 26.0 | 2.50 | 202 |
| -47K | 9 | 27.0 | ± 10% | 60 | 2.5 | 25.0 | 2.60 | 198 |
| -48J | ● | 27.0 | ± 5% | 60 | 2.5 | 25.0 | 2.60 | 198 |
| -50J | ● | 30.0 | ± 5% | 65 | 2.5 | 21.0 | 2.80 | 191 |
| -51K | 10 | 33.0 | ± 10% | 65 | 2.5 | 19.0 | 3.00 | 185 |
| -52J | ● | 33.0 | ± 5% | 65 | 2.5 | 19.0 | 3.00 | 185 |
| MS90538- SERIES 1537 IRON CORE (LT10K) | | | | | | | | |
| -54J | 1 | 36.0 | ± 5% | 60 | 2.5 | 15.5 | 2.50 | 202 |
| -56J | 2 | 39.0 | ± 5% | 60 | 2.5 | 14.5 | 2.60 | 198 |
| -58J | 3 | 43.0 | ± 5% | 60 | 2.5 | 13.7 | 2.70 | 194 |
| -60J | 4 | 47.0 | ± 5% | 55 | 2.5 | 13.0 | 2.75 | 193 |
| -62J | 5 | 51.0 | ± 5% | 55 | 2.5 | 12.7 | 2.85 | 189 |
| -64J | 6 | 56.0 | ± 5% | 55 | 2.5 | 12.0 | 3.00 | 184 |
| -66J | 7 | 62.0 | ± 5% | 55 | 2.5 | 11.5 | 3.15 | 180 |
| -68J | 8 | 68.0 | ± 5% | 55 | 2.5 | 11.0 | 3.30 | 176 |
| -70J | 9 | 75.0 | ± 5% | 55 | 2.5 | 10.5 | 3.70 | 166 |
| -72J | 10 | 82.0 | ± 5% | 50 | 2.5 | 10.3 | 3.90 | 162 |
| -74J | 11 | 91.0 | ± 5% | 50 | 2.5 | 10.0 | 4.30 | 154 |
| -76J | 12 | 100.0 | ± 5% | 50 | 2.5 | 9.5 | 4.50 | 151 |
| -78J | 13 | 110.0 | ± 5% | 60 | 0.79 | 8.9 | 4.90 | 144 |
| -80J | 14 | 120.0 | ± 5% | 65 | 0.79 | 8.7 | 5.20 | 140 |
| -82J | 15 | 130.0 | ± 5% | 65 | 0.79 | 8.5 | 5.45 | 137 |
| -84J | 16 | 150.0 | ± 5% | 65 | 0.79 | 8.0 | 6.05 | 130 |
| -86J | 17 | 160.0 | ± 5% | 65 | 0.79 | 7.5 | 6.40 | 126 |
| -88J | 18 | 180.0 | ± 5% | 65 | 0.79 | 7.0 | 6.75 | 123 |
| -90J | 19 | 200.0 | ± 5% | 65 | 0.79 | 6.5 | 7.10 | 120 |
| -92J | 20 | 220.0 | ± 5% | 65 | 0.79 | 6.2 | 7.45 | 117 |
| -94J | 21 | 240.0 | ± 5% | 65 | 0.79 | 5.9 | 7.80 | 115 |

Parts listed above are QPL/MIL qualified

Optional Tolerances: J = 5% H = 3% G = 2% F = 1%
*Complete part # must include series # PLUS the dash #

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