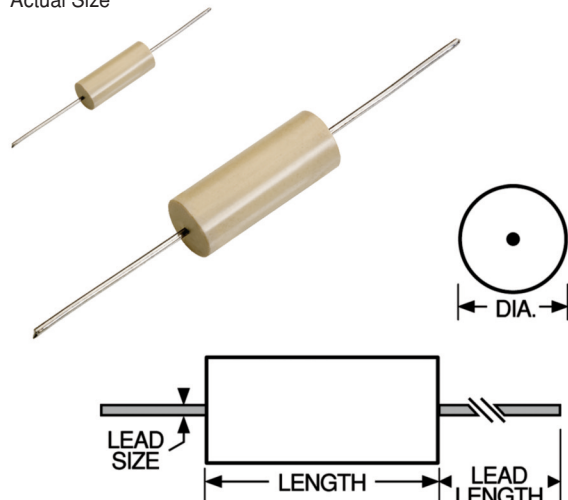


**SERIES****1537R**  
**1537****Molded Unshielded RF Coils**

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

|          |          |
|----------|----------|
| Front:   | Reverse: |
| 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) |
|--------------------------------------------------|------------|-----------------|-----------|-----------|----------------------|-------------------|------------------------------|-----------------------------|
| <b>MS18130- SERIES 1537 PHENOLIC CORE (LT4K)</b> |            |                 |           |           |                      |                   |                              |                             |
| -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                         |
| <b>MS14046- SERIES 1537 IRON CORE (LT10K)</b>    |            |                 |           |           |                      |                   |                              |                             |
| -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                                             | 9          | 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                                             | 9          | 27.0            | ± 5%      | 60        | 2.5                  | 25.0              | 2.60                         | 198                         |
| -50J                                             | 10         | 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                                             | 10         | 33.0            | ± 5%      | 65        | 2.5                  | 19.0              | 3.00                         | 185                         |
| <b>MS90538- SERIES 1537 IRON CORE (LT10K)</b>    |            |                 |           |           |                      |                   |                              |                             |
| -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 #

For surface finish information, refer to [www.delevanfinishes.com](http://www.delevanfinishes.com)