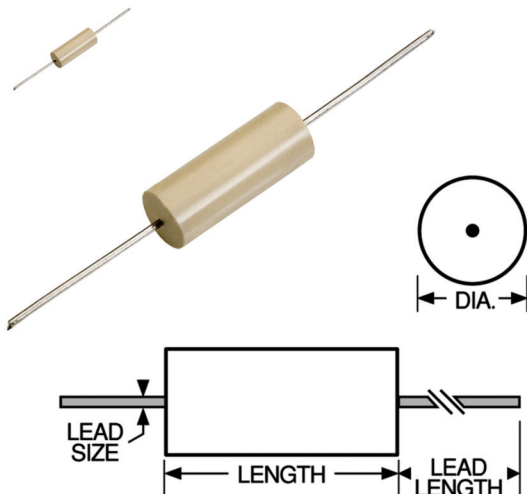


**SERIES****1782R**  
**1782****Molded Unshielded RF Coils**

Actual Size

**Physical Parameters**

|             | Inches         | Millimeters   |
|-------------|----------------|---------------|
| Length      | 0.250 ± 0.010  | 6.35 ± 0.25   |
| Diameter    | 0.095 ± 0.010  | 2.41 ± 0.25   |
| Lead Size   |                |               |
| AWG #24 TCW | 0.020 ± 0.0015 | 0.508 ± 0.038 |
| Lead Length | 1.5 ± 0.12     | 38.1 ± 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**

Phenolic: LT4K 0.21 W

Iron: LT10K 0.09 W

Ferrite: LT10K 0.073 W

**Weight Max.** (Grams) 0.3

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

Example: 1782-49J

|         |          |
|---------|----------|
| Front:  | Reverse: |
| DELEVAN | 16uH±5%  |
| 16uH±5% | 0237A    |

**Packaging** Tape & reel: 12" reel, 3500 pieces max.; 14" reel, 6000 pieces max.

**Made in the U.S.A.**

| DASH NUMBER*                            | INDUCTANCE (uH) ±10% | Q MINIMUM | TEST FREQUENCY (MHz) | SRF MINIMUM (MHz) | DC RESISTANCE MAXIMUM (OHMS) | CURRENT RATING MAXIMUM (mA) |
|-----------------------------------------|----------------------|-----------|----------------------|-------------------|------------------------------|-----------------------------|
| <b>SERIES 1782 PHENOLIC CORE (LT4K)</b> |                      |           |                      |                   |                              |                             |
| -95J                                    | 0.11                 | 40        | 25.0                 | 640               | 0.09                         | 1270                        |
| -97J                                    | 0.13                 | 38        | 25.0                 | 600               | 0.10                         | 1200                        |
| -02J                                    | 0.16                 | 35        | 25.0                 | 550               | 0.12                         | 1105                        |
| -03J                                    | 0.20                 | 33        | 25.0                 | 510               | 0.14                         | 1025                        |
| -05J                                    | 0.24                 | 33        | 25.0                 | 430               | 0.16                         | 960                         |
| -07J                                    | 0.30                 | 30        | 25.0                 | 410               | 0.22                         | 815                         |
| -09J                                    | 0.36                 | 30        | 25.0                 | 365               | 0.30                         | 700                         |
| -11J                                    | 0.43                 | 30        | 25.0                 | 330               | 0.35                         | 650                         |
| -13J                                    | 0.51                 | 30        | 25.0                 | 300               | 0.50                         | 545                         |
| -15J                                    | 0.62                 | 28        | 25.0                 | 275               | 0.60                         | 495                         |
| -17J                                    | 0.75                 | 28        | 25.0                 | 250               | 0.85                         | 415                         |
| -19J                                    | 0.91                 | 25        | 25.0                 | 230               | 1.00                         | 385                         |
| <b>SERIES 1782 IRON CORE (LT10K)</b>    |                      |           |                      |                   |                              |                             |
| -21J                                    | 1.10                 | 25        | 7.9                  | 150               | 0.18                         | 590                         |
| -23J                                    | 1.30                 | 25        | 7.9                  | 140               | 0.22                         | 535                         |
| -25J                                    | 1.60                 | 28        | 7.9                  | 125               | 0.30                         | 455                         |
| -27J                                    | 2.00                 | 30        | 7.9                  | 115               | 0.40                         | 395                         |
| -29J                                    | 2.40                 | 30        | 7.9                  | 100               | 0.55                         | 335                         |
| -31J                                    | 3.00                 | 37        | 7.9                  | 90                | 0.85                         | 270                         |
| -33J                                    | 3.60                 | 45        | 7.9                  | 80                | 1.00                         | 250                         |
| -35J                                    | 4.30                 | 45        | 7.9                  | 75                | 1.20                         | 230                         |
| -37J                                    | 5.10                 | 45        | 7.9                  | 65                | 1.80                         | 185                         |
| -39J                                    | 6.20                 | 50        | 7.9                  | 60                | 2.00                         | 175                         |
| -41J                                    | 7.50                 | 50        | 7.9                  | 55                | 2.70                         | 155                         |
| -43J                                    | 9.10                 | 55        | 7.9                  | 50                | 3.70                         | 130                         |
| -45J                                    | 11.0                 | 45        | 2.5                  | 40                | 2.70                         | 155                         |
| -47J                                    | 13.0                 | 40        | 2.5                  | 35                | 2.80                         | 150                         |
| -49J                                    | 16.0                 | 40        | 2.5                  | 30                | 3.10                         | 145                         |
| -51J                                    | 20.0                 | 50        | 2.5                  | 25                | 3.30                         | 140                         |
| -53J                                    | 24.0                 | 50        | 2.5                  | 20                | 3.50                         | 135                         |
| <b>SERIES 1782 FERRITE CORE (LT10K)</b> |                      |           |                      |                   |                              |                             |
| -55J                                    | 30.0                 | 45        | 2.5                  | 20                | 3.40                         | 130                         |
| -57J                                    | 36.0                 | 45        | 2.5                  | 22                | 3.60                         | 125                         |
| -59J                                    | 43.0                 | 45        | 2.5                  | 20                | 4.50                         | 110                         |
| -61J                                    | 51.0                 | 45        | 2.5                  | 18                | 5.70                         | 100                         |
| -63J                                    | 62.0                 | 45        | 2.5                  | 15                | 6.70                         | 92                          |
| -65J                                    | 75.0                 | 50        | 2.5                  | 14                | 7.30                         | 88                          |
| -67J                                    | 91.0                 | 50        | 2.5                  | 13                | 8.00                         | 84                          |
| -69J                                    | 110.0                | 30        | 0.790                | 12                | 13.0                         | 66                          |
| -71J                                    | 130.0                | 30        | 0.790                | 11                | 15.0                         | 61                          |
| -73J                                    | 160.0                | 30        | 0.790                | 10                | 17.0                         | 57                          |
| -75J                                    | 200.0                | 30        | 0.790                | 9.0               | 21.0                         | 52                          |
| -77J                                    | 240.0                | 30        | 0.790                | 8.0               | 25.0                         | 47                          |
| -79J                                    | 300.0                | 30        | 0.790                | 7.0               | 28.0                         | 45                          |
| -81J                                    | 360.0                | 30        | 0.790                | 6.5               | 35.0                         | 40                          |
| -83J                                    | 430.0                | 30        | 0.790                | 6.0               | 42.0                         | 36                          |
| -85J                                    | 510.0                | 30        | 0.790                | 5.0               | 46.0                         | 35                          |
| -87J                                    | 620.0                | 30        | 0.790                | 4.0               | 60.0                         | 30                          |
| -89J                                    | 750.0                | 30        | 0.790                | 3.8               | 65.0                         | 29                          |
| -91J                                    | 910.0                | 30        | 0.790                | 3.4               | 72.0                         | 28                          |

Optional Tolerances: 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)