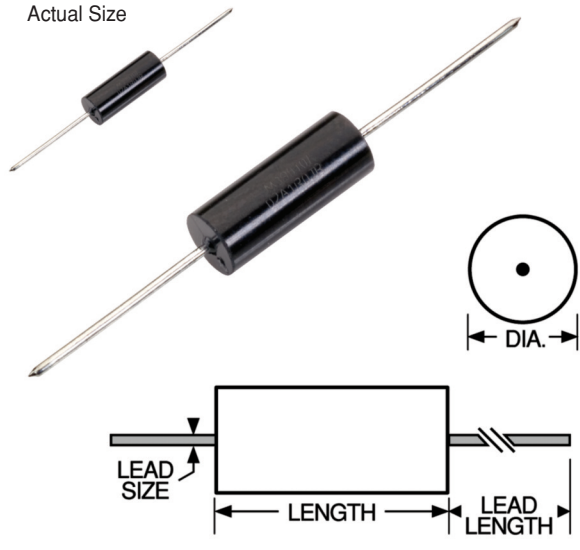


**SERIES 1641R**  
**1641** 

**Molded Shielded RF Coils**



**Military Specifications**

MS75087 (LT10K); MS75088 (LT10K);  
 MS75089 (15µH to 1000µH only) (LT10K)

**Physical Parameters**

|             | Inches        | Millimeters  |
|-------------|---------------|--------------|
| Length      | 0.410 ± 0.020 | 10.41 ± 0.51 |
| Diameter    | 0.162 ± 0.010 | 4.11 ± 0.25  |
| Lead Size   |               |              |
| AWG #22 TCW | 0.025 ± 0.002 | 0.635 ± 0.05 |
| Lead Length | 1.44 ± 0.12   | 36.58 ± 3.05 |

**Current Rating at 90°C Ambient** 15°C Rise

**Operating Temperature Range** -55°C to +105°C

**Maximum Power Dissipation at 90°C** 0.11 W

**Weight Max.** (Grams) 1.0

**Incremental Current** Current level which causes a Max. of 5% change in inductance.

**Coupling** 3% Max.

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

Example: 1641-103H

|               |                 |
|---------------|-----------------|
| <i>Front:</i> | <i>Reverse:</i> |
| DELEVAN       | 10uH±3%         |
| 10uH±3%       | 0907A           |

**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) ±10% | TEST FREQUENCY (MHz) | SRF MINIMUM (MHz) | DC RESISTANCE MAXIMUM (OHMS) | CURRENT RATING MAXIMUM (mA) | INCREMENTAL CURRENT (mA) |
|--------------|------------|----------------------|----------------------|-------------------|------------------------------|-----------------------------|--------------------------|
|--------------|------------|----------------------|----------------------|-------------------|------------------------------|-----------------------------|--------------------------|

| MS75087- SERIES 1641 PHENOLIC CORE/IRON SLEEVE (LT10K) |    |      |    |      |       |       |      |
|--|----|------|----|------|-------|-------|------|
| -101K  | 1  | 0.10 | 50 | 25.0 | 250.0 | 0.025 | 1830 |
| -121K  | 2  | 0.12 | 51 | 25.0 | 250.0 | 0.034 | 1570 |
| -151K  | 3  | 0.15 | 51 | 25.0 | 250.0 | 0.037 | 1500 |
| -181K  | 4  | 0.18 | 50 | 25.0 | 250.0 | 0.047 | 1330 |
| -221K  | 5  | 0.22 | 49 | 25.0 | 250.0 | 0.067 | 1120 |
| -271K  | 6  | 0.27 | 47 | 25.0 | 250.0 | 0.11  | 870  |
| -331K  | 7  | 0.33 | 46 | 25.0 | 250.0 | 0.13  | 800  |
| -391K  | 8  | 0.39 | 44 | 25.0 | 250.0 | 0.18  | 680  |
| -471K  | 9  | 0.47 | 44 | 25.0 | 235.0 | 0.25  | 580  |
| -561K  | 10 | 0.56 | 43 | 25.0 | 210.0 | 0.33  | 505  |
| -681K  | 11 | 0.68 | 42 | 25.0 | 190.0 | 0.45  | 430  |
| -821K  | 12 | 0.82 | 40 | 25.0 | 180.0 | 0.59  | 375  |

| MS75088- SERIES 1641 IRON CORE & SLEEVE (LT10K) |    |      |    |      |       |      |      |
|---|----|------|----|------|-------|------|------|
| -102K   | 1  | 1.0  | 44 | 25.0 | 140.0 | 0.07 | 1090 |
| -122K   | 2  | 1.2  | 44 | 7.9  | 130.0 | 0.10 | 900  |
| -152K   | 3  | 1.5  | 44 | 7.9  | 115.0 | 0.12 | 835  |
| -182K   | 4  | 1.8  | 44 | 7.9  | 105.0 | 0.14 | 775  |
| -222K   | 5  | 2.2  | 44 | 7.9  | 100.0 | 0.19 | 665  |
| -272K   | 6  | 2.7  | 44 | 7.9  | 92.0  | 0.28 | 545  |
| -332K   | 7  | 3.3  | 44 | 7.9  | 85.0  | 0.35 | 490  |
| -392K   | 8  | 3.9  | 44 | 7.9  | 75.0  | 0.40 | 455  |
| -472K   | 9  | 4.7  | 44 | 7.9  | 70.0  | 0.55 | 390  |
| -562K   | 10 | 5.6  | 44 | 7.9  | 65.0  | 0.72 | 340  |
| -682K   | 11 | 6.8  | 50 | 7.9  | 55.0  | 1.02 | 285  |
| -822K   | 12 | 8.2  | 50 | 7.9  | 50.0  | 1.32 | 250  |
| -103K   | 13 | 10.0 | 50 | 7.9  | 46.0  | 1.62 | 228  |
| -123K   | 14 | 12.0 | 55 | 2.5  | 44.0  | 2.00 | 205  |

| MS75089- SERIES 1641 FERRITE CORE & SLEEVE (LT10K) |    |        |    |      |      |      |     |
|--|----|--------|----|------|------|------|-----|
| -153K  | 1  | 15.0   | 45 | 2.5  | 49.0 | 0.80 | 325 |
| -183K  | 2  | 18.0   | 45 | 2.5  | 45.0 | 0.89 | 305 |
| -223K  | 3  | 22.0   | 45 | 2.5  | 41.0 | 0.96 | 295 |
| -273K  | 4  | 27.0   | 45 | 2.5  | 38.0 | 1.19 | 265 |
| -333K  | 5  | 33.0   | 45 | 2.5  | 34.0 | 1.37 | 248 |
| -393K  | 6  | 39.0   | 50 | 2.5  | 29.0 | 1.93 | 209 |
| -473K  | 7  | 47.0   | 50 | 2.5  | 27.0 | 2.11 | 200 |
| -563K  | 8  | 56.0   | 50 | 2.5  | 25.0 | 2.23 | 194 |
| -683K  | 9  | 68.0   | 50 | 2.5  | 21.0 | 2.70 | 176 |
| -823K  | 10 | 82.0   | 50 | 2.5  | 10.5 | 2.44 | 186 |
| -104K  | 11 | 100.0  | 50 | 2.5  | 10.0 | 3.12 | 164 |
| -124K  | 12 | 120.0  | 55 | 0.79 | 9.7  | 3.60 | 153 |
| -154K  | 13 | 150.0  | 55 | 0.79 | 8.5  | 4.10 | 143 |
| -184K  | 14 | 180.0  | 55 | 0.79 | 8.0  | 4.40 | 138 |
| -224K  | 15 | 220.0  | 55 | 0.79 | 7.5  | 5.00 | 130 |
| -274K  | 16 | 270.0  | 55 | 0.79 | 7.0  | 5.80 | 120 |
| -334K  | 17 | 330.0  | 55 | 0.79 | 6.5  | 6.40 | 115 |
| -394K  | 18 | 390.0  | 60 | 0.79 | 6.2  | 7.40 | 107 |
| -474K  | 19 | 470.0  | 60 | 0.79 | 5.7  | 9.50 | 94  |
| -564K  | 20 | 560.0  | 60 | 0.79 | 4.7  | 10.5 | 90  |
| -684K  | 21 | 680.0  | 60 | 0.79 | 4.5  | 11.8 | 84  |
| -824K  | 22 | 820.0  | 60 | 0.79 | 4.2  | 13.0 | 80  |
| -105K  | 23 | 1000.0 | 60 | 0.79 | 3.8  | 17.5 | 70  |

See 4307 Series for values above 1000µH.  
 Parts listed above are QPL/MIL qualified

Optional Tolerances: J = 5% H = 3%  
 \*Complete part # must include series # PLUS the dash #  
 For surface finish information, refer to www.delevanfinishes.com