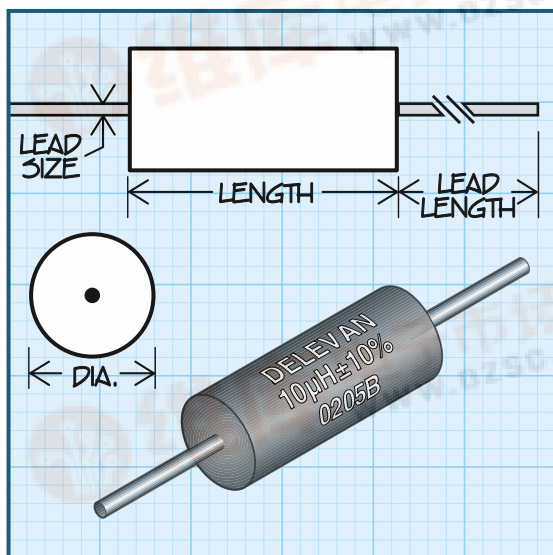


# Series 1641R

1641R  
1641R  
查询"1641R-272K" 供应商  
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.

**Packaging** Tape & reel: 12" reel, 2500 pieces max.;  
14" reel, 4000 pieces max. For additional packaging options, see technical section.

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

DASH NUMBER\*

MIL DASH #

INDUCTANCE  
(µH) ±10%

Q MINIMUM

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

### MS75088- SERIES 1641 IRON CORE & SLEEVE (LT10K)

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

### MS75089- SERIES 1641 FERRITE CORE & SLEEVE (LT10K)

|       |    |        |    |      |      |      |     |     |
|-------|----|--------|----|------|------|------|-----|-----|
| -153K | 1  | 15.0   | 45 | 2.5  | 49.0 | 0.80 | 325 | 250 |
| -183K | 2  | 18.0   | 45 | 2.5  | 45.0 | 0.89 | 305 | 235 |
| -223K | 3  | 22.0   | 45 | 2.5  | 41.0 | 0.96 | 295 | 220 |
| -273K | 4  | 27.0   | 45 | 2.5  | 38.0 | 1.19 | 265 | 200 |
| -333K | 5  | 33.0   | 45 | 2.5  | 34.0 | 1.37 | 248 | 190 |
| -393K | 6  | 39.0   | 50 | 2.5  | 29.0 | 1.93 | 209 | 180 |
| -473K | 7  | 47.0   | 50 | 2.5  | 27.0 | 2.11 | 200 | 175 |
| -563K | 8  | 56.0   | 50 | 2.5  | 25.0 | 2.23 | 194 | 160 |
| -683K | 9  | 68.0   | 50 | 2.5  | 21.0 | 2.70 | 176 | 150 |
| -823K | 10 | 82.0   | 50 | 2.5  | 10.5 | 2.44 | 186 | 140 |
| -104K | 11 | 100.0  | 50 | 2.5  | 10.0 | 3.12 | 164 | 120 |
| -124K | 12 | 120.0  | 55 | 0.79 | 9.7  | 3.60 | 153 | 95  |
| -154K | 13 | 150.0  | 55 | 0.79 | 8.5  | 4.10 | 143 | 90  |
| -184K | 14 | 180.0  | 55 | 0.79 | 8.0  | 4.40 | 138 | 85  |
| -224K | 15 | 220.0  | 55 | 0.79 | 7.5  | 5.00 | 130 | 80  |
| -274K | 16 | 270.0  | 55 | 0.79 | 7.0  | 5.80 | 120 | 70  |
| -334K | 17 | 330.0  | 55 | 0.79 | 6.5  | 6.40 | 115 | 65  |
| -394K | 18 | 390.0  | 60 | 0.79 | 6.2  | 7.40 | 107 | 60  |
| -474K | 19 | 470.0  | 60 | 0.79 | 5.7  | 9.50 | 94  | 58  |
| -564K | 20 | 560.0  | 60 | 0.79 | 4.7  | 10.5 | 90  | 55  |
| -684K | 21 | 680.0  | 60 | 0.79 | 4.5  | 11.8 | 84  | 50  |
| -824K | 22 | 820.0  | 60 | 0.79 | 4.2  | 13.0 | 80  | 45  |
| -105K | 23 | 1000.0 | 60 | 0.79 | 3.8  | 17.5 | 70  | 40  |

See 4307 Series (page 53) 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 further surface finish information,  
refer to TECHNICAL section of this catalog.



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