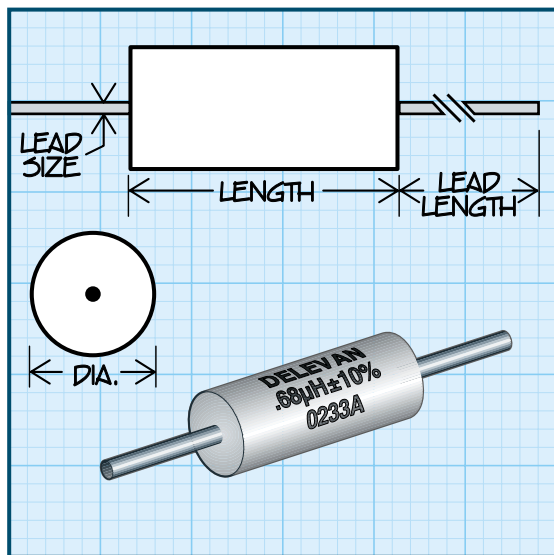


Series

1025R, 1026R  
1025 QPL 1026RoHS  
CompliantTraditional  
First Quality

## Molded Unshielded RF Coils



## Military Specifications (1025 Series Only)

MS75083 (LT4K); MS75084 (LT10K); MS75085 (LT10K)

## 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

• For in-between values see Series 1782 (page 41)

**Note** (1026 Series only) Self Resonant Frequency (SRF) values are calculated and for reference only.

**Packaging** Tape & reel: 12" reel, 3500 pieces max.; 14" reel, 6000 pieces max. For additional packaging options, see technical section.

\*Complete part # must include series # PLUS the dash #

For further surface finish information, refer to TECHNICAL section of this catalog.

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)

| MS75083- SERIES 1025 PHENOLIC CORE (LT4K) |    |      |      |    |      |       |      |      |
|-------------------------------------------|----|------|------|----|------|-------|------|------|
| -94K                                      | 1  | 0.10 | ±10% | 40 | 25.0 | 680.0 | 0.08 | 1380 |
| -96K                                      | 2  | 0.12 | ±10% | 40 | 25.0 | 640.0 | 0.09 | 1300 |
| -00K                                      | 3  | 0.15 | ±10% | 38 | 25.0 | 600.0 | 0.10 | 1230 |
| -02K                                      | 4  | 0.18 | ±10% | 35 | 25.0 | 550.0 | 0.12 | 1120 |
| -04K                                      | 5  | 0.22 | ±10% | 33 | 25.0 | 510.0 | 0.14 | 1040 |
| -06K                                      | 6  | 0.27 | ±10% | 33 | 25.0 | 430.0 | 0.16 | 975  |
| -08K                                      | 7  | 0.33 | ±10% | 30 | 25.0 | 410.0 | 0.22 | 830  |
| -10K                                      | 8  | 0.39 | ±10% | 30 | 25.0 | 365.0 | 0.30 | 710  |
| -12K                                      | 9  | 0.47 | ±10% | 30 | 25.0 | 330.0 | 0.35 | 660  |
| -14K                                      | 10 | 0.56 | ±10% | 30 | 25.0 | 300.0 | 0.50 | 550  |
| -16K                                      | 11 | 0.68 | ±10% | 28 | 25.0 | 275.0 | 0.60 | 500  |
| -18K                                      | 12 | 0.82 | ±10% | 28 | 25.0 | 250.0 | 0.85 | 420  |
| -20K                                      | 13 | 1.0  | ±10% | 25 | 25.0 | 230.0 | 1.00 | 390  |

| MS75084- SERIES 1025 IRON CORE (LT10K) |    |      |      |    |     |       |      |     |
|----------------------------------------|----|------|------|----|-----|-------|------|-----|
| -22K                                   | 1  | 1.2  | ±10% | 25 | 7.9 | 150.0 | 0.18 | 620 |
| -24K                                   | 2  | 1.5  | ±10% | 28 | 7.9 | 140.0 | 0.22 | 560 |
| -26K                                   | 3  | 1.8  | ±10% | 30 | 7.9 | 125.0 | 0.30 | 480 |
| -28K                                   | 4  | 2.2  | ±10% | 30 | 7.9 | 115.0 | 0.40 | 415 |
| -30K                                   | 5  | 2.7  | ±10% | 37 | 7.9 | 100.0 | 0.55 | 355 |
| -32K                                   | 6  | 3.3  | ±10% | 45 | 7.9 | 90.0  | 0.85 | 285 |
| -34K                                   | 7  | 3.9  | ±10% | 45 | 7.9 | 80.0  | 1.00 | 263 |
| -36K                                   | 8  | 4.7  | ±10% | 45 | 7.9 | 75.0  | 1.20 | 239 |
| -38K                                   | 9  | 5.6  | ±10% | 50 | 7.9 | 65.0  | 1.80 | 195 |
| -40K                                   | 10 | 6.8  | ±10% | 50 | 7.9 | 60.0  | 2.00 | 185 |
| -42K                                   | 11 | 8.2  | ±10% | 55 | 7.9 | 55.0  | 2.70 | 160 |
| -44K                                   | 12 | 10.0 | ±10% | 55 | 7.9 | 50.0  | 3.30 | 144 |
| -46K                                   | 13 | 12.0 | ±10% | 45 | 2.5 | 40.0  | 2.70 | 160 |
| -48K                                   | 14 | 15.0 | ±10% | 45 | 2.5 | 35.0  | 2.80 | 157 |
| -50K                                   | 15 | 18.0 | ±10% | 50 | 2.5 | 30.0  | 3.10 | 149 |
| -52K                                   | 16 | 22.0 | ±10% | 50 | 2.5 | 25.0  | 3.30 | 144 |
| -54K                                   | 17 | 27.0 | ±10% | 50 | 2.5 | 20.0  | 3.50 | 140 |

| MS75085- SERIES 1025 FERRITE CORE (LT10K) |    |        |      |    |      |      |       |     |
|-------------------------------------------|----|--------|------|----|------|------|-------|-----|
| -56K                                      | 1  | 33.0   | ±10% | 45 | 2.5  | 24.0 | 3.40  | 130 |
| -58K                                      | 2  | 39.0   | ±10% | 45 | 2.5  | 22.0 | 3.60  | 125 |
| -60K                                      | 3  | 47.0   | ±10% | 45 | 2.5  | 20.0 | 4.50  | 110 |
| -62K                                      | 4  | 56.0   | ±10% | 45 | 2.5  | 18.0 | 5.70  | 100 |
| -64K                                      | 5  | 68.0   | ±10% | 50 | 2.5  | 15.0 | 6.70  | 92  |
| -66K                                      | 6  | 82.0   | ±10% | 50 | 2.5  | 14.0 | 7.30  | 88  |
| -68K                                      | 7  | 100.0  | ±10% | 50 | 2.5  | 13.0 | 8.00  | 84  |
| -70K                                      | 8  | 120.0  | ±10% | 30 | 0.79 | 12.0 | 13.00 | 66  |
| -72K                                      | 9  | 150.0  | ±10% | 30 | 0.79 | 11.0 | 15.00 | 61  |
| -74K                                      | 10 | 180.0  | ±10% | 30 | 0.79 | 10.0 | 17.00 | 57  |
| -76K                                      | 11 | 220.0  | ±10% | 30 | 0.79 | 9.0  | 21.00 | 52  |
| -78K                                      | 12 | 270.0  | ±10% | 30 | 0.79 | 8.0  | 25.00 | 47  |
| -80K                                      | 13 | 330.0  | ±10% | 30 | 0.79 | 7.0  | 28.00 | 45  |
| -82K                                      | 14 | 390.0  | ±10% | 30 | 0.79 | 6.5  | 35.00 | 40  |
| -84K                                      | 15 | 470.0  | ±10% | 30 | 0.79 | 6.0  | 42.00 | 36  |
| -86K                                      | 16 | 560.0  | ±10% | 30 | 0.79 | 5.0  | 46.00 | 35  |
| -88K                                      | 17 | 680.0  | ±10% | 30 | 0.79 | 4.2  | 60.00 | 30  |
| -90K                                      | 18 | 820.0  | ±10% | 30 | 0.79 | 3.8  | 65.00 | 29  |
| -92K                                      | 19 | 1000.0 | ±10% | 30 | 0.79 | 3.4  | 72.00 | 28  |

Parts listed above are QPL/MIL qualified

| SERIES 1026 PHENOLIC CORE (LT4K) |  |       |      |    |      |       |       |      |
|----------------------------------|--|-------|------|----|------|-------|-------|------|
| -00M                             |  | 0.022 | ±20% | 50 | 50.0 | 900.0 | 0.010 | 3800 |
| -02K                             |  | 0.027 | ±10% | 40 | 25.0 | 875.0 | 0.030 | 2200 |
| -04K                             |  | 0.033 | ±10% | 40 | 25.0 | 850.0 | 0.035 | 2000 |
| -06K                             |  | 0.039 | ±10% | 40 | 25.0 | 825.0 | 0.040 | 1900 |
| -08K                             |  | 0.047 | ±10% | 40 | 25.0 | 800.0 | 0.045 | 1800 |
| -10K                             |  | 0.056 | ±10% | 40 | 25.0 | 775.0 | 0.050 | 1700 |
| -12K                             |  | 0.068 | ±10% | 40 | 25.0 | 750.0 | 0.060 | 1500 |
| -14K                             |  | 0.082 | ±10% | 40 | 25.0 | 725.0 | 0.070 | 1400 |

Optional Tolerances: J = 5% H = 3% G = 2% F = 1%