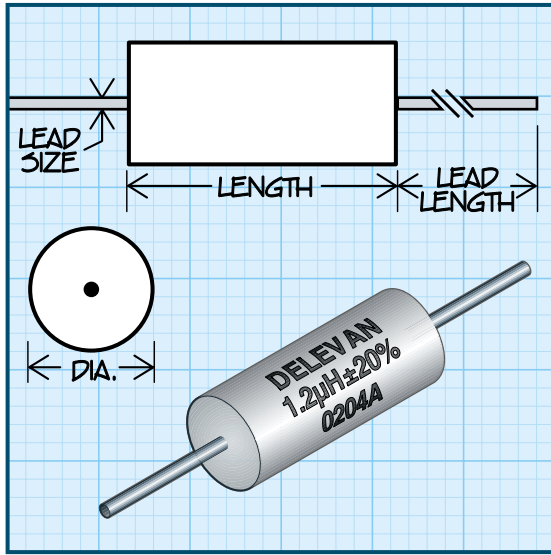


Series 1944R & 1945R 1944 & 1945



Molded Unshielded RF Coils



Test Methods MIL-PRF-15305 test methods, only.
MS21389-01 to MS21389-17, reference - 1944 Series
MS21390-01 to MS21390-39, reference - 1945 Series

Physical Parameters

| | Inches | Millimeters |
|-------------|----------------|----------------|
| Length | 0.420 to 0.447 | 10.67 to 11.35 |
| Diameter | 0.168 to 0.193 | 4.27 to 4.90 |
| Lead Size | | |
| AWG #22 TCW | 0.023 to 0.027 | 0.584 to 0.686 |
| Lead Length | 1.30 Min. | 33.02 Min. |

Current Rating at 90°C Ambient 35°C Rise

Operating Temperature -55°C to +125°C

Maximum Power Dissipation at 90°C

Series 1944: 0.385 W
Series 1945: 0.330 W

Packaging Tape & reel: 12" reel, 2500 pieces max.;
14" reel, 3000 pieces max. For additional packaging options, see technical section.

Made in the U.S.A.

| | DASH NUMBER* | MIL DASH # (Ref.) | INDUCTANCE (µH) | TOLERANCE | INDUCTANCE TEST FREQUENCY (MHz) | Q-TEST FREQUENCY (MHz) | Q MINIMUM | SRF MINIMUM (MHz) | DC RESISTANCE MAXIMUM (OHMS) | CURRENT RATING MAXIMUM (mA) |
|--|--------------|-------------------|-----------------|-----------|---------------------------------|------------------------|-----------|-------------------|------------------------------|-----------------------------|
| MS21389 (reference) – SERIES 1944 PHENOLIC CORE | | | | | | | | | | |
| -01M | 1 | 0.10 | ± 20% | 25 | 50 | 75 | 400 | 0.020 | 4000 | |
| -02M | 2 | 0.12 | ± 20% | 25 | 50 | 75 | 400 | 0.025 | 3500 | |
| -03M | 3 | 0.15 | ± 20% | 25 | 50 | 75 | 400 | 0.030 | 3000 | |
| -04M | 4 | 0.18 | ± 20% | 25 | 50 | 65 | 400 | 0.030 | 3000 | |
| -05M | 5 | 0.22 | ± 20% | 25 | 50 | 65 | 400 | 0.030 | 3000 | |
| -06M | 6 | 0.27 | ± 20% | 25 | 45 | 65 | 376 | 0.040 | 2700 | |
| -07M | 7 | 0.33 | ± 20% | 25 | 40 | 65 | 352 | 0.045 | 2500 | |
| -08M | 8 | 0.39 | ± 20% | 25 | 40 | 60 | 320 | 0.070 | 2000 | |
| -09M | 9 | 0.47 | ± 20% | 25 | 25 | 55 | 288 | 0.070 | 2000 | |
| -10M | 10 | 0.56 | ± 20% | 25 | 25 | 50 | 264 | 0.100 | 1700 | |
| -11M | 11 | 0.68 | ± 20% | 25 | 25 | 50 | 240 | 0.120 | 1500 | |
| -12M | 12 | 0.82 | ± 20% | 25 | 25 | 45 | 220 | 0.160 | 1300 | |
| -13M | 13 | 1.00 | ± 20% | 25 | 20 | 45 | 200 | 0.230 | 1100 | |
| -14M | 14 | 1.20 | ± 20% | 7.9 | 20 | 45 | 176 | 0.280 | 1000 | |
| -15K | 15 | 1.50 | ± 10% | 7.9 | 15 | 45 | 160 | 0.380 | 850 | |
| -16K | 16 | 1.80 | ± 10% | 7.9 | 15 | 45 | 144 | 0.540 | 720 | |
| -17K | 17 | 2.20 | ± 10% | 7.9 | 15 | 45 | 132 | 0.750 | 610 | |
| MS21390 (reference) – SERIES 1945 IRON CORE | | | | | | | | | | |
| -01K | 1 | 2.70 | ± 10% | 7.9 | 10 | 55 | 88 | 0.11 | 1600 | |
| -02K | 2 | 3.30 | ± 10% | 7.9 | 10 | 55 | 80 | 0.14 | 1400 | |
| -03K | 3 | 3.90 | ± 10% | 7.9 | 10 | 60 | 76 | 0.19 | 1200 | |
| -04K | 4 | 4.70 | ± 10% | 7.9 | 7.9 | 70 | 72 | 0.28 | 1000 | |
| -05K | 5 | 5.60 | ± 10% | 7.9 | 7.9 | 65 | 64 | 0.34 | 900 | |
| -06K | 6 | 6.80 | ± 10% | 7.9 | 7.9 | 65 | 56 | 0.43 | 800 | |
| -07K | 7 | 8.20 | ± 10% | 7.9 | 7.9 | 60 | 52 | 0.56 | 720 | |
| -08K | 8 | 10.0 | ± 10% | 7.9 | 5.0 | 60 | 48 | 0.67 | 650 | |
| -09K | 9 | 12.0 | ± 10% | 2.5 | 5.0 | 65 | 42.4 | 0.81 | 590 | |
| -10K | 10 | 15.0 | ± 10% | 2.5 | 2.5 | 80 | 37.6 | 1.15 | 500 | |
| -11K | 11 | 18.0 | ± 10% | 2.5 | 2.5 | 75 | 34.4 | 1.40 | 460 | |
| -12K | 12 | 22.0 | ± 10% | 2.5 | 2.5 | 75 | 32.0 | 1.60 | 430 | |
| -13J | 13 | 27.0 | ± 5% | 2.5 | 2.5 | 75 | 28.8 | 2.30 | 360 | |
| -14J | 14 | 33.0 | ± 5% | 2.5 | 2.5 | 85 | 25.6 | 3.30 | 300 | |
| -15J | 15 | 39.0 | ± 5% | 2.5 | 2.5 | 80 | 20.8 | 3.32 | 290 | |
| -16J | 16 | 47.0 | ± 5% | 2.5 | 2.5 | 80 | 17.6 | 3.70 | 275 | |
| -17J | 17 | 56.0 | ± 5% | 2.5 | 2.5 | 75 | 15.2 | 3.99 | 265 | |
| -18J | 18 | 68.0 | ± 5% | 2.5 | 2.5 | 75 | 12.8 | 4.48 | 250 | |
| -19J | 19 | 82.0 | ± 5% | 2.5 | 2.5 | 75 | 10.4 | 5.07 | 235 | |
| -20J | 20 | 100 | ± 5% | 2.5 | 1.5 | 75 | 8.00 | 5.78 | 220 | |
| -21J | 21 | 120 | ± 5% | 0.79 | 0.79 | 65 | 5.76 | 5.00 | 170 | |
| -22J | 22 | 150 | ± 5% | 0.79 | 0.79 | 65 | 5.36 | 5.80 | 164 | |
| -23J | 23 | 180 | ± 5% | 0.79 | 0.79 | 65 | 5.04 | 6.60 | 158 | |
| -24J | 24 | 220 | ± 5% | 0.79 | 0.79 | 65 | 4.72 | 7.40 | 155 | |
| -25J | 25 | 270 | ± 5% | 0.79 | 0.79 | 65 | 4.48 | 8.00 | 150 | |
| -26J | 26 | 300 | ± 5% | 0.79 | 0.79 | 65 | 4.24 | 8.60 | 145 | |
| -27J | 27 | 330 | ± 5% | 0.79 | 0.79 | 65 | 4.00 | 8.90 | 142 | |
| -28J | 28 | 360 | ± 5% | 0.79 | 0.79 | 65 | 3.76 | 9.60 | 137 | |
| -29J | 29 | 390 | ± 5% | 0.79 | 0.79 | 65 | 3.60 | 9.90 | 135 | |
| -30J | 30 | 430 | ± 5% | 0.79 | 0.79 | 65 | 3.44 | 10.4 | 131 | |
| -31J | 31 | 470 | ± 5% | 0.79 | 0.79 | 65 | 3.20 | 10.9 | 128 | |
| -32J | 32 | 510 | ± 5% | 0.79 | 0.79 | 65 | 3.04 | 11.6 | 124 | |
| -33J | 33 | 560 | ± 5% | 0.79 | 0.79 | 60 | 2.88 | 11.8 | 123 | |
| -34J | 34 | 620 | ± 5% | 0.79 | 0.79 | 60 | 2.80 | 12.5 | 120 | |
| -35J | 35 | 680 | ± 5% | 0.79 | 0.79 | 60 | 2.72 | 13.5 | 115 | |
| -36J | 36 | 750 | ± 5% | 0.79 | 0.79 | 60 | 2.64 | 14.0 | 113 | |
| -37J | 37 | 820 | ± 5% | 0.79 | 0.79 | 60 | 2.48 | 15.0 | 110 | |
| -38J | 38 | 910 | ± 5% | 0.79 | 0.79 | 60 | 2.40 | 15.5 | 107 | |
| -39J | 39 | 1000 | ± 5% | 0.79 | 0.79 | 60 | 2.24 | 16.5 | 104 | |

Optional Tolerances: K = 10% J = 5% H = 3% G = 2% F = 1%

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

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