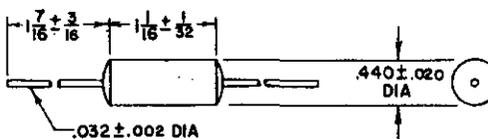


FED. SUP CLASS
5950

| RATINGS | |
|-------------------------------|-------------|
| STYLE | LT4 |
| GRADE | I |
| CLASS | B |
| MAXIMUM OPERATING TEMPERATURE | 125°C |
| TEMPERATURE RISE | 35°C |
| AMBIENT TEMPERATURE | 90°C |
| WORKING VOLTAGE | 535 VOLTS |
| TERMINAL PULL | 5 POUNDS |
| ALTITUDE | 70,000 FEET |



ALL DIMENSIONS IN INCHES

ELECTRICAL CHARACTERISTICS (INITIAL)

| Dash No. 1/ | Type designation | Replaced type designation | Replaced MS part No. | Inductance | Q min. | Test frequency | Self-resonant frequency, min. | DC resistance max. | Rated dc current 2/ |
|-------------|------------------|---------------------------|----------------------|---------------|--------|----------------|-------------------------------|--------------------|---------------------|
| | | | | μh | | Mc | Mc | Ohms | ma |
| -1 | LT4K158 | LT8K067 | MS16444-1 | 4.7 ± 5% | 80 | 7.90 | 73.0 | 0.21 | 1,540 |
| -2 | LT4K159 | LT8K068 | MS16444-2 | 5.6 ± 5% | 80 | 7.90 | 64.0 | 0.24 | 1,440 |
| -3 | LT4K160 | LT8K069 | MS16444-3 | 6.8 ± 5% | 80 | 7.90 | 61.0 | 0.33 | 1,230 |
| -4 | LT4K161 | LT8K070 | MS16444-4 | 8.2 ± 5% | 81 | 7.90 | 56.0 | 0.43 | 1,075 |
| -5 | LT4K162 | LT8K071 | MS16444-5 | 10.0 ± 5% | 82 | 7.90 | 51.0 | 0.60 | 910 |
| -6 | LT4K163 | LT8K072 | MS16444-6 | 12.0 ± 5% | 53 | 2.50 | 46.0 | 0.83 | 775 |
| -7 | LT4K164 | LT8K073 | MS16445-1 | 15.0 ± 5% | 53 | 2.50 | 42.0 | 1.15 | 725 |
| -8 | LT4K165 | LT8K074 | MS16445-2 | 18.0 ± 5% | 54 | 2.50 | 35.0 | 1.60 | 615 |
| -9 | LT4K166 | LT8K075 | MS16445-3 | 22.0 ± 5% | 33 | 2.50 | 20.0 | 0.17 | 1,890 |
| -10 | LT4K167 | LT8K076 | MS16445-4 | 27.0 ± 5% | 33 | 2.50 | 18.0 | 0.24 | 1,590 |
| -11 | LT4K168 | LT8K077 | MS16445-5 | 33.0 ± 5% | 33 | 2.50 | 16.5 | 0.33 | 1,360 |
| -12 | LT4K169 | LT8K078 | MS16445-6 | 39.0 ± 5% | 33 | 2.50 | 15.0 | 0.37 | 1,280 |
| -13 | LT4K170 | LT8K079 | MS16445-7 | 47.0 ± 5% | 33 | 2.50 | 13.5 | 0.50 | 1,100 |
| -14 | LT4K171 | LT8K080 | MS16445-8 | 56.0 ± 5% | 33 | 2.50 | 12.5 | 0.68 | 945 |
| -15 | LT4K172 | LT8K081 | MS16445-9 | 67.0 ± 5% | 33 | 2.50 | 11.0 | 0.92 | 810 |
| -16 | LT4K173 | LT8K082 | MS16445-10 | 80.0 ± 5% | 33 | 2.50 | 10.0 | 1.25 | 695 |
| -17 | LT4K174 | LT8K083 | MS16445-11 | 96.0 ± 5% | 42 | 2.50 | 9.2 | 1.40 | 660 |
| -18 | LT4K175 | LT8K084 | MS16445-12 | 115.0 ± 5% | 73 | 0.79 | 8.3 | 1.95 | 560 |
| -19 | LT4K176 | LT8K085 | MS16445-13 | 138.0 ± 5% | 77 | 0.79 | 7.4 | 2.80 | 465 |
| -20 | LT4K177 | LT8K086 | MS16445-14 | 165.0 ± 5% | 78 | 0.79 | 6.8 | 3.60 | 410 |
| -21 | LT4K178 | --- | --- | 20.0 ± 5% | 80 | 0.79 | 6.1 | 4.90 | 350 |
| -22 | LT4K179 | LT8K087 | --- | 25.0 ± 5% | 80 | 0.79 | 5.7 | 5.40 | 335 |
| -23 | LT4K180 | --- | --- | 27.0 ± 5% | 80 | 0.79 | 5.5 | 7.00 | 295 |
| -24 | LT4K181 | --- | --- | 33.0 ± 5% | 80 | 0.79 | 4.9 | 8.00 | 275 |

1/ The dash number in the first column of this table is the military-standard number constitutes the MS part number; for example MS -1.
2/ The current shall be dc and 1½ times the rated dc current.

ELECTRICAL CHARACTERISTICS (FINAL)

| Inspection group | Allowable variation from initial measurement | | | |
|---------------------------|--|---------|-------------------------|---------------|
| | Inductance | Q | Self-resonant frequency | DC resistance |
| | Percent | Percent | Percent | Percent |
| Qualification inspection: | | | | |
| Group II | 2 | 20 | 2 | 2 |
| Group III | 2 | 10 | 2 | 2 |
| Acceptance inspection: | | | | |
| Group B | 2 | 10 | 2 | 2 |
| Group C | 2 | 10 | 2 | 2 |

NOTES:

1. THE BAROMETRIC-PRESSURE TEST (TEST-CONDITION LETTER C) IS APPLICABLE.
2. INITIAL INSULATION-RESISTANCE TEST, AND INSULATION-RESISTANCE MEASUREMENTS FOLLOWING OTHER TESTS, ARE APPLICABLE.
3. THE TEMPERATURE-RISE, TERMINAL-TWIST, AND SHOCK (METHOD I, CONDITION C, 50G) TESTS ARE APPLICABLE.
4. THE POLARIZING VOLTAGE DURING THE MOISTURE-RESISTANCE TEST IS APPLIED WITH THE POSITIVE LEAD CONNECTED TO THE COIL TERMINALS TIED TOGETHER, AND THE NEGATIVE LEAD CONNECTED TO THE METAL STRAP.
5. REFERENCED DOCUMENT SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.
6. FOR DESIGN FEATURE PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENT REFERENCED HEREIN.
7. VIBRATION-TEST II, TEST CONDITION B, IS APPLICABLE, IN ADDITION UNITS SHALL BE RIGIDLY MOUNTED BY THE BODY.

This military standard is approved by the Department of Defense and is mandatory on all activities. Subject to all engineering and design applications and for repetitive use shall be made from this document.

| | | | |
|--|-------------|--|-------------------|
| P.A. | MI | TITLE | MILITARY STANDARD |
| Other Cust | EL ASD | COILS, RADIOFREQUENCY, PLASTIC ENCASED, TYPES LT4K158 TO LT4K181, INCL. | MS 75056 |
| PROCUREMENT SPECIFICATION MIL-C-15305 | SUPERSEDES: | | SHEET 1 OF 1 |

5950-0434-6

APPROVED 9 May 1963 REVISED A 25 Aug 1972