

Army - AR
Navy - AS, SH, MC
Air Force - 19

User activities

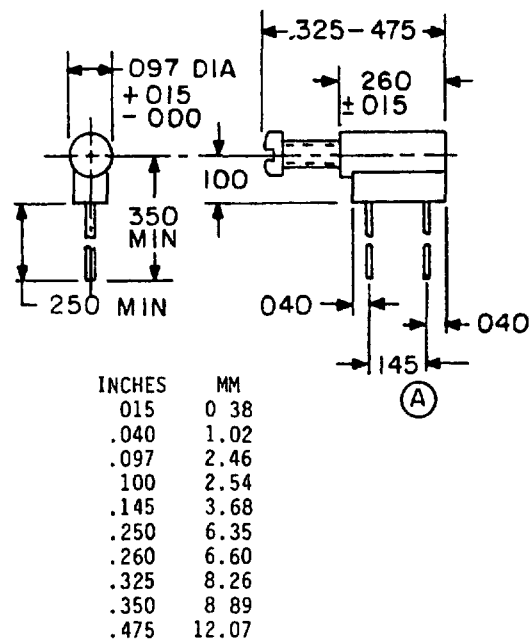
Army - MI
Navy - OS
Air Force - 11, 17, 80
DLA - ES

Review activities

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RATINGS

| | |
|----------------------------------|------------------|
| Style | LT11V |
| Grade | 2 |
| Class | A |
| Operating temperature range | -55°C to +105°C |
| Ambient temperature | 90°C |
| Temperature rise | 15°C |
| Power dissipation | 225 mW max |
| Dielectric withstanding voltages | |
| Sea level | 1,000 V rms min |
| Reduced barometric pressure | 300 V rms min |
| Terminal pull | |
| -1 through -13 | 2 lb min |
| -14 through -17 | 1 lb min |
| Tuning torque | .005 - 15 in oz. |
| Stop torque | .2 in oz. max |
| Altitude | 70,000 feet |
| Weight | .2 gram max |



ELECTRICAL CHARACTERISTICS (initial)

| Dash No 1/ | Type Designation | Inductance | | Test Freq MHz | Q Min. at L Max | SRF Min MHz | DC Res at 25°C Max Ohms | Rated Current Max mA DC | |
|---------------|------------------|---------------|---------------|---------------|-----------------|-------------|-------------------------|-------------------------|--|
| | | L Max μ H | L Min μ H | | | | | | |
| -1 | LT11V060 | 10.0 | 5.5 | 2.5 | 25 | 40 | 2.8 | 57 | |
| -2 | " 061 | 13.0 | 6.5 | 2.5 | 25 | 35 | 3.0 | 53 | |
| -3 | " 062 | 16.0 | 8.0 | 2.5 | 30 | 26 | 3.4 | 50 | |
| -4 | " 063 | 20.0 | 10.0 | 2.5 | 30 | 20 | 3.5 | 43 | |
| -5 | " 064 | 22.0 | 11.0 | 2.5 | 30 | 14 | 4.0 | 43 | |
| -6 | " 065 | 30.0 | 15.0 | 2.5 | 30 | 10 | 4.5 | 40 | |
| -7 | " 066 | 36.0 | 18.0 | 2.5 | 30 | 9 | 5.0 | 40 | |
| -8 | " 067 | 47.0 | 24.0 | 2.5 | 30 | 6.5 | 5.7 | 39 | |
| -9 | " 068 | 56.0 | 28.0 | 2.5 | 30 | 6.3 | 7.0 | 35 | |
| -10 | " 069 | 68.0 | 34.0 | 2.5 | 30 | 6.2 | 8.0 | 30 | |
| -11 | " 070 | 75.0 | 38.0 | 2.5 | 30 | 5.9 | 9.0 | 30 | |
| -12 | " 071 | 86.0 | 43.0 | 2.5 | 30 | 5.6 | 10.0 | 28 | |
| -13 | " 072 | 100.0 | 50.0 | .79 | 30 | 5.4 | 12.0 | 27 | |
| -14 | " 073 | 120.0 | 60.0 | .79 | 25 | 4.4 | 14.0 | 25 | |
| -15 | " 074 | 470.0 | 240.0 | .79 | 20 | 2.1 | 30.0 | 16 | |
| -16 | " 075 | 680.0 | 340.0 | .79 | 20 | 2.0 | 35.0 | 15 | |
| -17 | LT11V076 | 1 mH | .5 mH | .79 | 20 | 1.1 | 75.0 | 11 | |

1/ The dash number added to the MS Military Standard number constitutes the MS part number for example MS53232-1.

(A) denotes change

| | | | |
|--|---------------------------|--|-------------------|
| P A ARMY-ER | International Interest | TITLE COILS, RADIO FREQUENCY, ENCAPSULATED, VARIABLE, MICRO- MINIATURE, (FERRITE-CORE), TYPES LT11V060 TO LT11V076, INCL | MILITARY STANDARD |
| Other Cust AF-85 NAVY-EC | | | MS53232 |
| Procurement Specification MIL-C-15305 | | SUPERSEDES | PAGE 1 OF 3 |

DD FORM 1 MAY 73 672 (Coordinated) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

5950-0655-4

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APPROVED 18 AUG 76 REVISED (A) 31 October 1985

FED SUP CLASS
5950

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| ELECTRICAL CHARACTERISTICS (final) | | | | |
|------------------------------------|---|-----------------|---------|---------|
| Inspection group | Allowable variation from initial measurements | | | |
| | Inductance | DCR | SRF | Q |
| | Percent | | Percent | Percent |
| Qualification | | | | |
| Group II | +5 | --- | --- | -10 |
| Group III | +10 | +(2% + 001 ohm) | -15 | -20 |
| Group IV | +5 | +(2% + 001 ohm) | -10 | -20 |
| Quality Conformance Inspection | | | | |
| Group C | | | | |
| Subgroup I | +5 | --- | --- | -10 |
| Subgroup II | +5 | +(2% + 001 ohm) | -10 | -20 |
| Subgroup III | +10 | +(2% + 001 ohm) | -15 | -20 |

NOTES:

- Dimensions are in inches.
- Metric equivalents are given for general information only.
- Unless otherwise specified, tolerance is ± 0.005 (0.13 mm).
- Lead material: -1 through -13 is .018 (0.46 mm) diameter gold-plated Kovar.
-14 through -17 is .013 (0.33 mm) diameter gold-plated Kovar.
- The test fixture in the diagram following shall be used for electrical measurements. Inductance values are effective inductance as indicated on a HP260A, or equivalent Q meter, when tested in the test fixture. Add 5% to Q reading to account for loss of Q in test jig.
- Polarization during the moisture resistance test is not applicable.
- Shock, specified pulse, method 213, test condition I, is applicable.
- Coils are held rigidly by the body during vibration and mechanical shock testing.
- Barometric pressure test (test condition C) is applicable.
- Resistance to soldering heat test, per MIL-STD-202, method 216, test condition B, is applicable.
- For dielectric withstanding voltage, barometric pressure and insulation resistance units shall be placed on flat metal plate with leads insulated from surface. Measurement of dielectric withstanding voltage, barometric pressure and insulation resistance shall be between the leads of the coil connected together and the metal plate.
- Screw core assembly shall be set at maximum specified inductance value indicated in the electrical characteristics table (initial), prior to all inspection tests. This setting shall not be changed until electrical characteristics (final) measurements are performed.
- The marking shall be as specified in MIL-C-15305 except that the marking shall be on the unit package or container.
- This standard takes precedence over the procurement specification referenced herein.
- Referenced document shall be the issue in effect on the date of invitation for bid.

APPROVED 18 AUG 76 REVISED (A) FOR CHANGES SEE PAGE 1

| | | | |
|--|------------------------|--|-------------------|
| PA ARMY-ER | International Interest | TITLE COILS, RADIO FREQUENCY, ENCAPSULATED, VARIABLE, MICRO-MINIATURE, (FERRITE-CORE), TYPES LT11V060 TO LT11V076, INCL | MILITARY STANDARD |
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| Procurement Specification MIL-C-15305 | SUPERSEDES | | PAGE 2 OF 3 |

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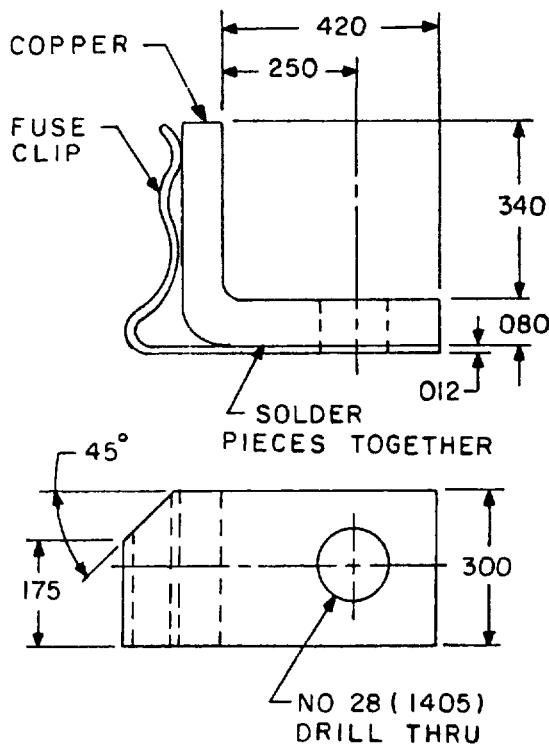
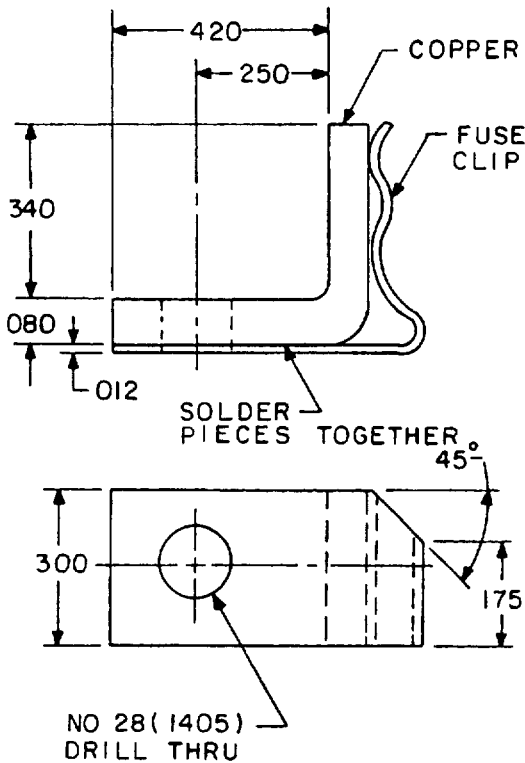
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5950



TEST FIXTURES FOR ELECTRICAL MEASUREMENTS

SIDE B

| INCHES | MM |
|--------|-------|
| 012 | 0.30 |
| 080 | 2.03 |
| 1405 | 3.570 |
| .175 | 4.45 |
| 250 | 6.35 |
| 300 | 7.62 |
| .340 | 8.64 |
| 420 | 10.67 |

SIDE A

| | | | |
|--|------------------------|---|-------------------|
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