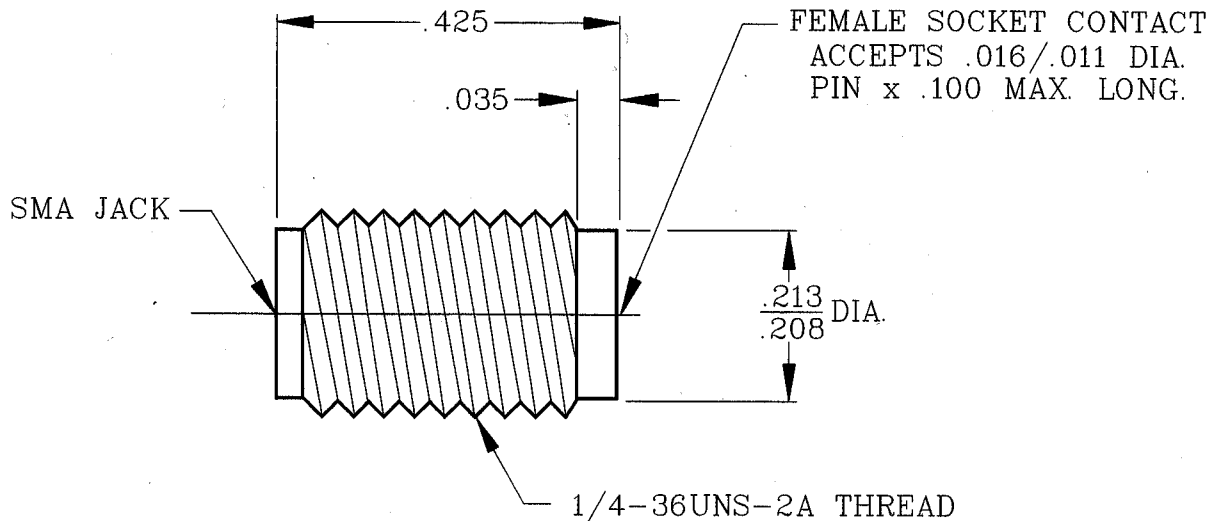


SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS FOR SMA JACK PER MIL-STD-348 (Fig. 310-2).

2. ELECTRICAL

| | | |
|---|-------|-------------------------------|
| FREQUENCY RANGE GHz | _____ | DC TO 26.5 GHz |
| VSWR (MAX.) * | _____ | 1.05 + .006 x FGHz |
| INSERTION LOSS (dB MAX.) * | _____ | .03 dB x $\sqrt{\text{FGHz}}$ |
| NOMINAL IMPEDANCE (OHMS) | _____ | 50 |
| VOLTAGE RATING (MAX. VRMS) | _____ | 250 |
| RF LEAKAGE (MIN. dB DOWN) | _____ | 100 dB - FGHz |
| TEMPERATURE RATING (DEGREES CENTIGRADE) | _____ | -65° c TO +165° c |
| DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS) | _____ | 750 |
| INSULATION RESISTANCE (MIN. MEGOHMS) | _____ | 10,000 |
| CONTACT RESISTANCE | | |
| • CENTER CONTACT (MAX. MILLIOHMS) | _____ | 6.0 |
| • OUTER CONTACT (MAX. MILLIOHMS) | _____ | 2.0 |

* TERMINATED IN A 50 OHM LOAD

| REV. | DCN NO. | DATE | APP. | DIMENSIONS ARE IN INCHES TOLERANCES | | | GEORGETOWN MA. 01833 |
|------|---------|------|------|--|--------------|---------------------------|--|
| | | | | DECIMALS | FRACTIONAL | ANGULAR | |
| - | 1224 | 7/96 | | .X ± .030 .XX ± .010 .XXX ± .005 | ±/64 | X° ± 1' 0" X° X' ± 15' | |
| | | | | SURFACE ROUGHNESS 63 ✓ MIL-STD 10. | | | |
| | | | | DRAWN | DATE | 7/96 | TITLE SMA, JACK SCREW-IN MIC. PACKAGE |
| | | | | APPROVED | DATE | 7/96 | |
| | | | | CODE IDENT. | SHEET 1 OF 2 | | DWG. NO. 9930-0081-6412 |
| | | | | 2J899 | | | |

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT

- MAX. AXIAL FORCE _____ 6.0 LBS.
- MAX. RADIAL TORQUE _____ N/A

CENTER CONTACT AXIAL FORCES

- INSERTION (MAX. OUNCES) _____ INTERFACE 48.0, REAR 32.0
- WITHDRAWAL (MIN. OUNCES) _____ INTERFACE 2.0, REAR 1.0

CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. IN. LBS.) _____ 2.0

CONNECTOR DURABILITY (MIN. CYCLES) _____ 500

RECOMMENDED MATING TORQUE

- INTERFACE _____ 7 - 10 INCH LBS.
- PACKAGE _____ 27 - 30 INCH LBS.

4. ENVIRONMENTAL

- TEMPERATURE CYCLING _____ MIL-STD-202, METHOD 102, COND. C (-65 ° c TO + 200 ° c)
- SHOCK _____ MIL-STD-202, METHOD 213, COND. I (100 G's)
- VIBRATION _____ MIL-STD-202, METHOD 204, COND. D (20 G's)
- MOISTURE RESISTANCE _____ MIL-STD-202, METHOD 106, LESS STEP 7b.
- CORROSION _____ MIL-STD-202, METHOD 101, COND. B (48 HOURS)
- BAROMETRIC PRESSURE (ALTITUDE) _____ MIL-STD-202, METHOD 105, COND. C (70,000 FT.) (190 VRMS)

5. MATERIAL

- BODY _____ STAINLESS STEEL PER ASTM A 581, TYPE 303, COND. A.
- CONTACT _____ BERYLLIUM COPPER PER ASTM B196-90, COPPER ALLOY No. UNS C17300, TEMPER TD04.
- INSULATOR _____ PER ASTM D 4894-91

6. FINISH

- BODY _____ GOLD PER MIL-G-45204, TYPE II, GRADE C, CLASS 1. OVER NICKEL PER QQ-N-290. (.00010 MIN. THK.)
- CONTACT _____ GOLD PER MIL-G-45204, TYPE II, GRADE C, CLASS 2 (.000100 Minimum Thickness) OVER NICKEL PER QQ-N-290, CLASS 1 (.000100 Minimum Thickness) OVER COPPER PER MIL-C-14550 (.000010 Minimum Thickness).
- INSULATOR _____ N/A

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INCORPORATED

SHEET 2 OF 2

DWG.
NO.

9930-0081-6412

REV.

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