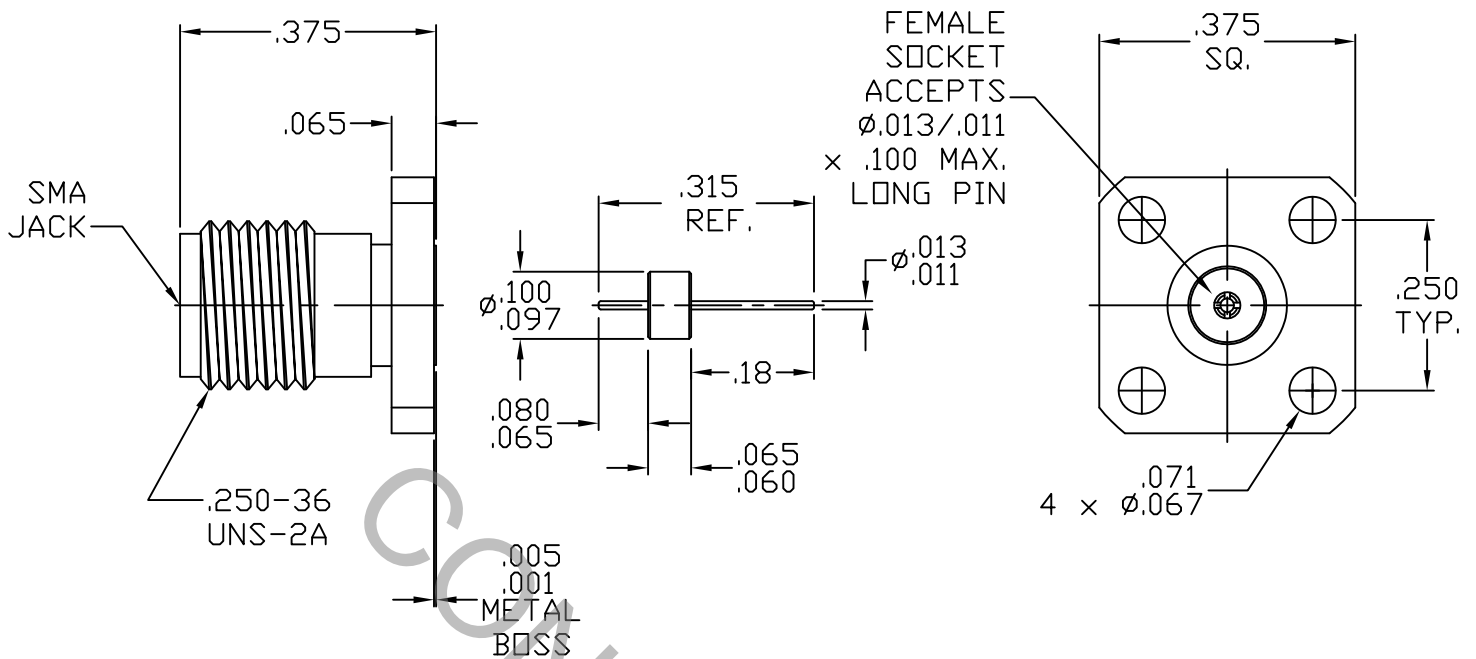


SPECIFICATION CONTROL DRAWING



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

2. ELECTRICAL

| | | |
|---|-------|--|
| FREQUENCY RANGE GHz | _____ | DC TO 27.0 GHz |
| VSWR (MAX.) * | _____ | 1.10 : 1 @ 18.0 GHz. 1.15 : 1 @ 27.0 GHz. |
| INSERTION LOSS (dB MAX.) * | _____ | .05 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) | _____ | 5,000 |
| CONTACT RESISTANCE | | |
| • CENTER CONTACT (MAX. MILLIOHMS) | _____ | 6.0 |
| • OUTER CONTACT (MAX. MILLIOHMS) | _____ | 2.0 |

*TERMINATED IN A 50 OHM LOAD

RoHS
COMPLIANT

This Document contains proprietary and confidential information.

| REV. | DCN NO. | DATE | APP. | DIMENSIONS ARE IN INCHES TOLERANCES | | | HAVERHILL MA. 01835 |
|------|---------|--------|------|--|--------------|--------------------------|-------------------------|
| AA | 15-1963 | 7/9/15 | DC | DECIMALS | FRACTIONAL | ANGULAR | |
| | | | | .x ± .030 .xx ± .010 .xxx ± .005 | ± 1/64 | x° ± 1'0" x° x' ± 15' | |
| | | | | DRAWN | TS | DATE | 7/9/15 |
| | | | | APPROVED | DC | DATE | 7/9/15 |
| | | | | CODE IDENT. | SHEET 1 OF 2 | | DWG. NO. 9954-0812-3217 |
| | | | | 2J899 | | | |

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT
MAX. AXIAL FORCE _____ 4.0 LBS.
MAX. RADIAL TORQUE _____ N/A

CENTER CONTACT AXIAL FORCES
● INSERTION (MAX. OUNCES) _____ INTERFACE 32.0 OZ. / REAR 32.0 OZ.
● WITHDRAWAL (MIN. OUNCES) _____ INTERFACE 2.0 OZ. / REAR 1.0 OZ.

CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. IN. LBS.) _____ 2.0
CONNECTOR DURABILITY (MIN. CYCLES) _____ 500
RECOMMENDED MATING TORQUE _____ 7 - 10 IN. LBS.

4. ENVIRONMENTAL

TEMPERATURE CYCLING _____ MIL-STD-202, METHOD 102, COND. C (-65 °c TO + 165 °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)
HERMETICITY _____ BEAD SHALL NOT EXCEED A LEAK RATE OF 10^{-8} cc/SEC.
TRACER GAS OF HELIUM AT A PRESSURE DIFFERENTIAL OF 15 P.S.I.

5. MATERIAL

BODY _____ STAINLESS STEEL PER ASTM-A-582, TYPE 303, COND. A
CONTACT _____ BERYLLIUM COPPER PER ASTM-B-196/B, 196M-03, COPPER ALLOY No. UNS-C17300, TEMPER TD04.
INSULATOR _____ TEFLON PER ASTM-D-1710-02, TYPE 1, GRADE 1, CLASS B.
GLASS RING AND PIN _____ KOVAR PER MIL-I-23011.
GLASS _____ CORNING 7052

6. FINISH

BODY _____ PASSIVATE PER AMS 2700, TYPE 2, CLASS 4.
FEED THRU _____ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 1.25
(.000050 MIN. THK.) OVER NICKEL per MIL-P-27418
(.000100 MIN. THK.) OVER NICKEL, WOODS OR WATTS
(.000010 MIN. THK.)
CONTACT _____ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 1.27
(.000050 MIN. THK.) OVER NICKEL PER SAE AMS QQ-N-290, CLASS 1
(.000050 MIN. THK.) OVER COPPER PER AMS 2418 (.000010 MIN. THL.)
INSULATOR, GASKET & GLASS _____ N/A