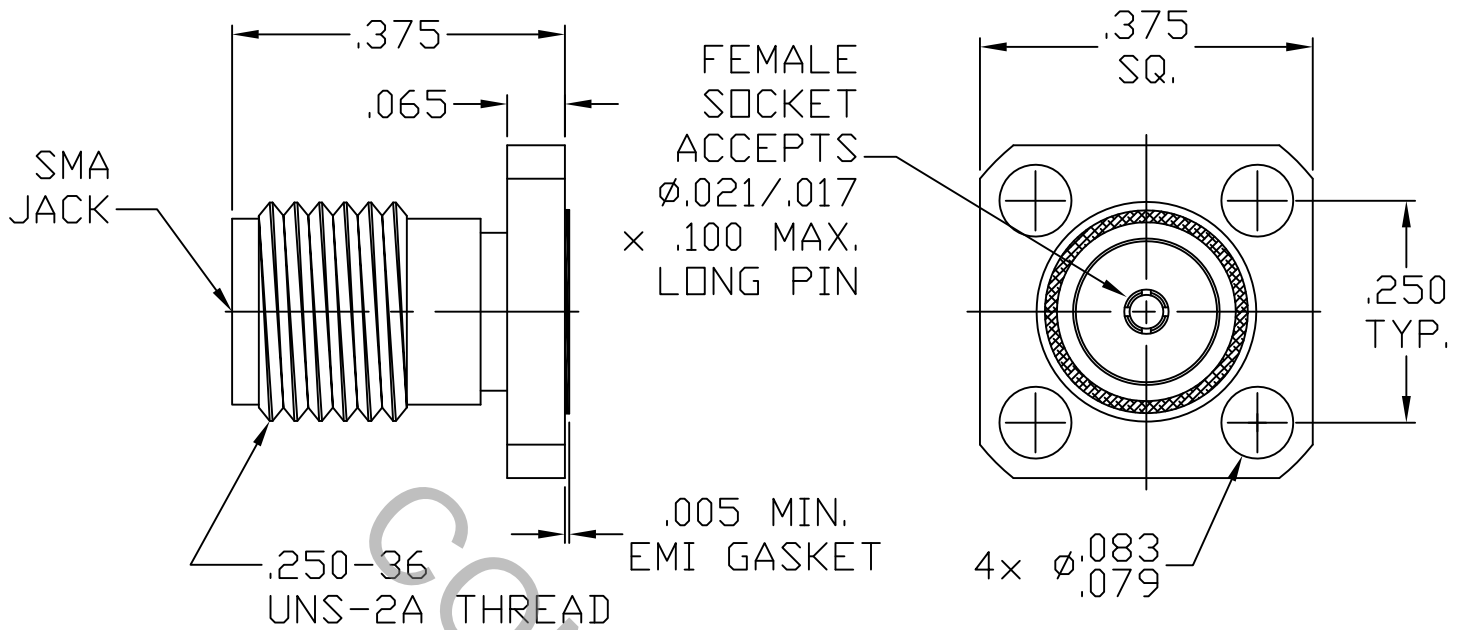


# SPECIFICATION CONTROL DRAWING



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

## 2. ELECTRICAL

|   |       |                    |
|---|-------|--------------------|
| FREQUENCY RANGE GHz                         | _____ | DC TO 26.5 GHz     |
| VSWR (MAX.) *                               | _____ | 1.05 + .006 x FGHz |
| INSERTION LOSS (dB MAX.) *                  | _____ | .03 dB x √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

| REV. | DCN NO. | DATE    | APP. | DIMENSIONS ARE IN INCHES<br>TOLERANCES |              |                            | <br>HAVERHILL MA. 01835                                       |                         |
|------|---------|---------|------|--|--------------|----------------------------|---|-------------------------|
| AA   | 03-1219 | 2/19/03 | BN   | DECIMALS                               | FRACTIONAL   | ANGULAR                    |   |                         |
| AB   | 10-1056 | 1/19/10 | TS   | .X ± .030<br>.XX ± .010<br>.XXX ± .005 | ± 1/64       | X ° ± 1'0"<br>X ° X' ± 15' | TITLE<br>SMA JACK<br>4 HOLE FLANGE MOUNT<br>FIELD REPLACEABLE |                         |
|      |         |         |      | DRAWN                                  | SS           | DATE                       |   | 2/19/03                 |
|      |         |         |      | APPROVED                               | BN           | DATE                       |   | 2/19/03                 |
|      |         |         |      | CODE IDENT.                            | SHEET 1 OF 2 |                            |   | DWG. NO. 9954-0781-6427 |
|      |         |         |      | 2J899                                  |              |                            |   |                         |

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

### CAPTIVATION-CENTER CONTACT

MAX.AXIAL FORCE \_\_\_\_\_ 4.5 LBS.

MAX. RADIAL TORQUE \_\_\_\_\_ N/A

### CENTER CONTACT AXIAL FORCES

● INSERTION (MAX. OUNCES) \_\_\_\_\_ INTERFACE 48.0 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 + 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-582, TYPE 303, COND. A

CONTACT \_\_\_\_\_ BERYLLIUM COPPER PER ASTM-B-196/B, 196M-03, COPPER ALLOY No. UNS C 17300, TEMPER TD04.

EMI GASKET \_\_\_\_\_ SILVER PLATED ALUMINUM IN SILICONE

INSULATOR \_\_\_\_\_ TEFLON PER ASTM D 1710-02, TYPE 1, GRADE 1, CLASS B.

## 6. FINISH

BODY \_\_\_\_\_ GOLD PER ATSM B 488, TYPE I, CODE C, CLASS 1.25 (.000050 Min.Thk.) OVER NICKEL per QQ-N-290, (.000150 Min. Thk.) OVER COPPER per MIL-C-14550, (.000010 Min. Thk.).

CONTACT \_\_\_\_\_ GOLD PER ATSM B 488, TYPE I, CODE C, CLASS 2.5 (.00010 Min.Thk.) OVER NICKEL per QQ-N-290, (.000050 Min. Thk.) OVER COPPER per MIL-C-14550, (.000010 Min. Thk.).

INSULATOR & EMI GASKET \_\_\_\_\_ N/A