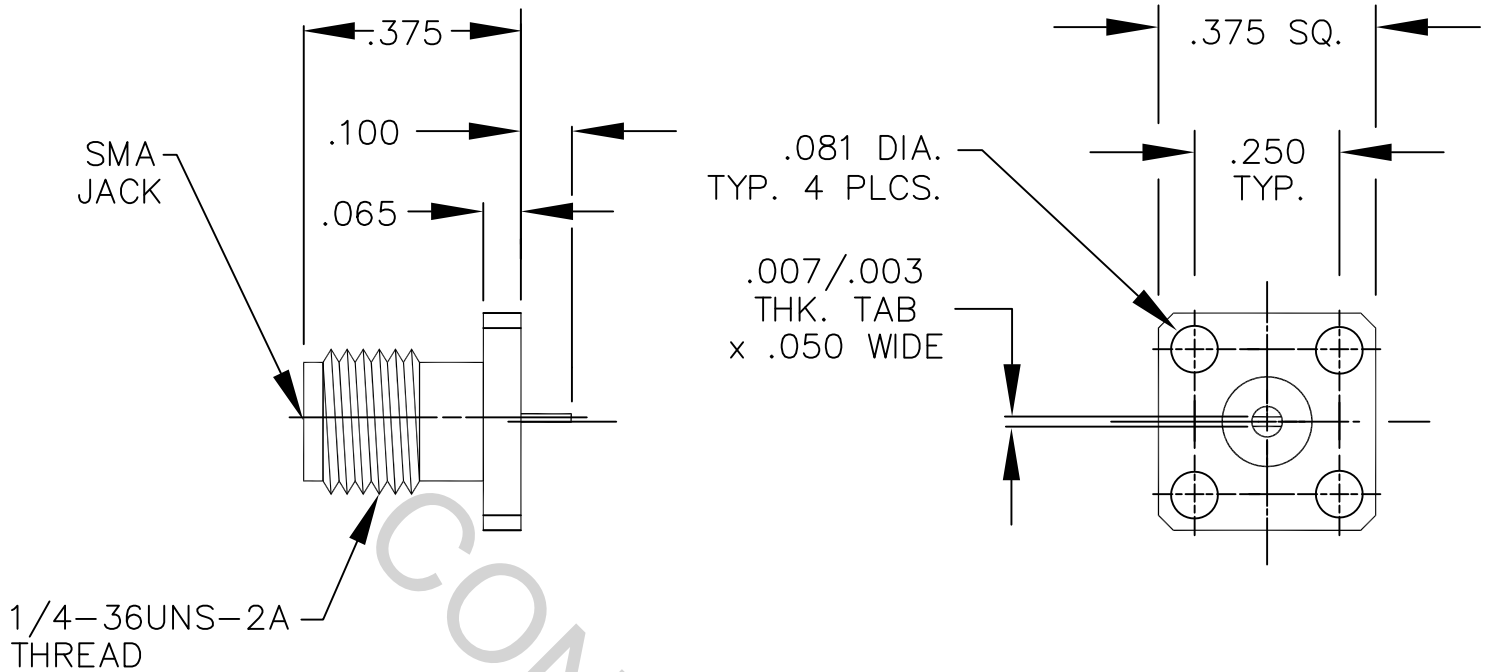


# SPECIFICATION CONTROL DRAWING



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

## 2. ELECTRICAL

|   |       |                     |
|---|-------|---------------------|
| FREQUENCY RANGE GHz                         | _____ | DC TO 18.0 GHz.     |
| VSWR (MAX.) *                               | _____ | 1.05 + .008 x FGHz. |
| INSERTION LOSS (dB MAX.) *                  | _____ | .04 dB x √FGHz      |
| NOMINAL IMPEDANCE (OHMS)                    | _____ | 50                  |
| VOLTAGE RATING (MAX. VRMS)                  | _____ | 335                 |
| RF LEAKAGE (MIN. dB DOWN)                   | _____ | 100 dB - FGHz       |
| TEMPERATURE RATING (DEGREES CENTIGRADE)     | _____ | -65 °c TO + 150 °c  |
| DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS) | _____ | 1,000               |
| INSULATION RESISTANCE (MIN. MEGOHMS)        | _____ | 10,000              |
| CONTACT RESISTANCE                          |       |                     |
| • CENTER CONTACT (MAX. MILLIOHMS)           | _____ | 3.0                 |
| • OUTER CONTACT (MAX. MILLIOHMS)            | _____ | 2.0                 |

\*TERMINATED IN A 50 OHM LOAD

This Document contains proprietary and confidential information.

**RoHS**  
COMPLIANT

| REV. | DCN NO. | DATE    | APP. | DIMENSIONS ARE IN INCHES<br>TOLERANCES |              |                            | <br>HAVERHILL, MA. 01835                            |
|------|---------|---------|------|--|--------------|----------------------------|---|
|      |         |         |      | DECIMALS                               | FRACTIONAL   | ANGULAR                    |   |
| AA   | 02-0789 | 9/23/02 | BN   | .X ± .030<br>.XX ± .010<br>.XXX ± .005 | ±/64         | X ° ± 1 0'<br>X ° X' ± 15' | TITLE<br>SMA, JACK<br>4 HOLE FLANGE<br>TAB TERMINAL |
| AB   | 18-1694 | 6/25/18 | DC   |  |              |                            |   |
|      |         |         |      | DRAWN GE                               | DATE 9/17/02 |                            | DWG.<br>NO. 9954-0052-6238                          |
|      |         |         |      | APPROVED BN                            | DATE 9/23/02 |                            |   |
|      |         |         |      | CODE IDENT.<br>2J899                   | SHEET 1 OF 2 |                            |   |

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

### CAPTIVATION-CENTER CONTACT

MAX.AXIAL FORCE \_\_\_\_\_ 6.0 LBS.

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

### CENTER CONTACT MATING FORCES

● INSERTION (MAX. OUNCES) \_\_\_\_\_ 48.0

● WITHDRAWAL (MIN. OUNCES) \_\_\_\_\_ 2.0

CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. IN. LBS.) \_\_\_\_\_ 2.0

CONNECTOR DURABILITY (MIN. CYCLES) \_\_\_\_\_ 1,000

RECOMMENDED MATING TORQUE (INCH LBS.) \_\_\_\_\_ 7 - 10

## 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. ) ( 250 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

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

## 6. FINISH

BODY \_\_\_\_\_ PASSIVATE PER AMS 2700, TYPE 2, CLASS 4.

CONTACT \_\_\_\_\_ GOLD PER ASTM B 488, TYPE II, CODE C, CLASS 1.27  
(.000050 MIN. THK.) OVER NICKEL PER QQ-N-290,  
(.000050 MIN. THK.) OVER COPPER PER AMS 2418  
(.000010 MIN. THK.) .

INSULATOR \_\_\_\_\_ N/A