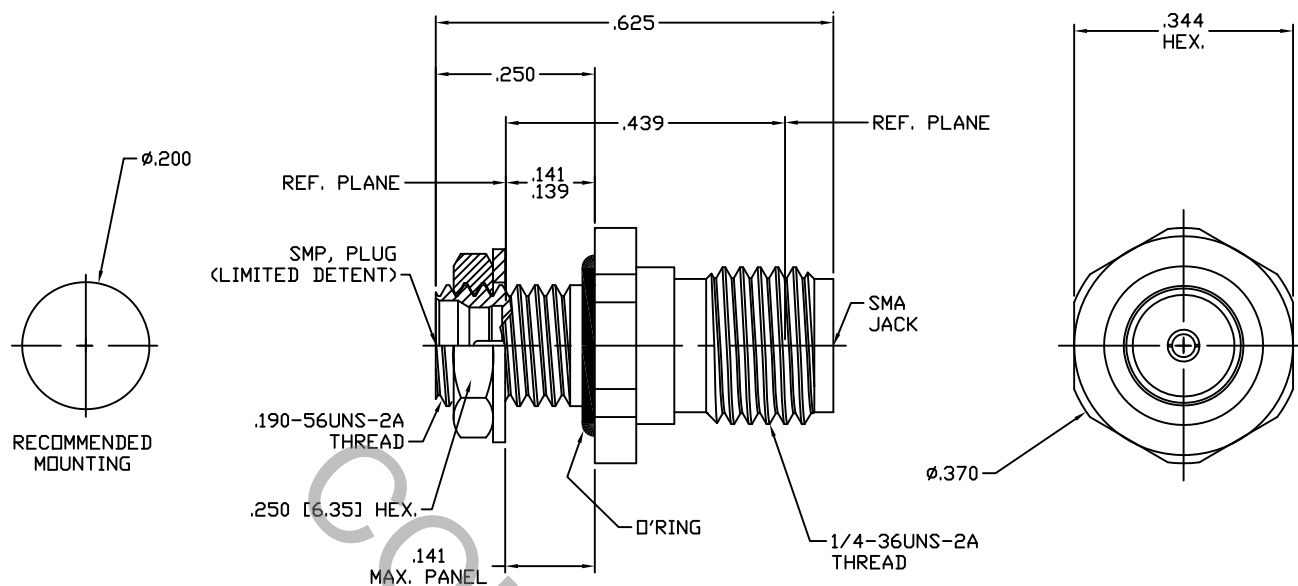


# SPECIFICATION CONTROL DRAWING




1. MATING INTERFACE DIMENSIONS PER MIL-STD-348A, Fig. 326.3 (SMP, MALE, LIMITED DETENT) AND MIL-STD-348A Fig 310.2 (SMA, JACK).

## 2. ELECTRICAL

|   |       |                               |
|---|-------|-------------------------------|
| FREQUENCY RANGE GHz                         | _____ | DC TO 26.5 GHz                |
| VSWR (MAX) *                                | _____ | 1.05 + .005 x FGHz            |
| INSERTION LOSS (dB MAX) *                   | _____ | .04 dB x $\sqrt{\text{FGHz}}$ |
| NOMINAL IMPEDANCE (OHMS)                    | _____ | 50                            |
| VOLTAGE RATING (MAX. VRMS)                  | _____ | 170                           |
| RF LEAKAGE (MIN. dB DOWN)                   | _____ | -100 dB - FGHz                |
| TEMPERATURE RATING (DEGREES CENTIGRADE)     | _____ | -65°C TO + 165°C              |
| DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS) | _____ | 500                           |
| 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   | 11-1894 | 10/10/11 | TS   | DECIMALS<br>.X ± .030<br>.XX ± .010<br>.XXX ± .005 | FRACTIONAL<br>± 1/64 | ANGULAR<br>X ° ± 1° 0'<br>X ° X' ± 15'  |  |
|      |         |          |      | DRAWN TS   | DATE 10/10/11        | TITLE SMP MALE,<br>(LIMITED DETENT)<br>TO SMA JACK,<br>BULKHEAD PANEL ADAPTER |  |
|      |         |          |      | APPROVED DC  | DATE 10/10/11        |   |  |
|      |         |          |      | CODE IDENT.<br>2J899                               | SHEET 1 OF 2         | DWG. NO. 1117-2199-6254   |  |

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

### CAPTIVATION-CENTER CONTACT

MAX AXIAL FORCE \_\_\_\_\_ 3.5 LBS.

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

### CONNECTOR ENGAGEMENT FORCE

● INSERTION (MAX. LBS.) \_\_\_\_\_ 10.0 (LIMITED DETENT)

● WITHDRAWAL (MIN. LBS.) \_\_\_\_\_ 2.0 (LIMITED DETENT)

CONNECTOR DURABILITY (MIN. CYCLES) \_\_\_\_\_ 500 (SMA, JACK)  
250 (SMP, PLUG, LIMITED DETENT)

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

## 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. ) ( 125 VRMS )

## 5. MATERIAL

CONNECTOR BODY, LOCKNUT AND LOCKWASHER — STAINLESS STEEL PER ASTM A 582, TYPE 303, COND. A

CENTER CONTACT \_\_\_\_\_ BERYLLIUM COPPER PER ASTM B196/B, 196M-03, COPPER  
ALLOY No. UNS C17300, TEMPER TD04.

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

O'RING \_\_\_\_\_ SILICONE RUBBER

## 6. FINISH

CONNECTOR BODY, LOCKNUT AND LOCKWASHER — PASSIVATE PER AMS 2700, TYPE 2, CLASS 4.

CENTER 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. THK.).

INSULATORS AND O'RING \_\_\_\_\_ N/A