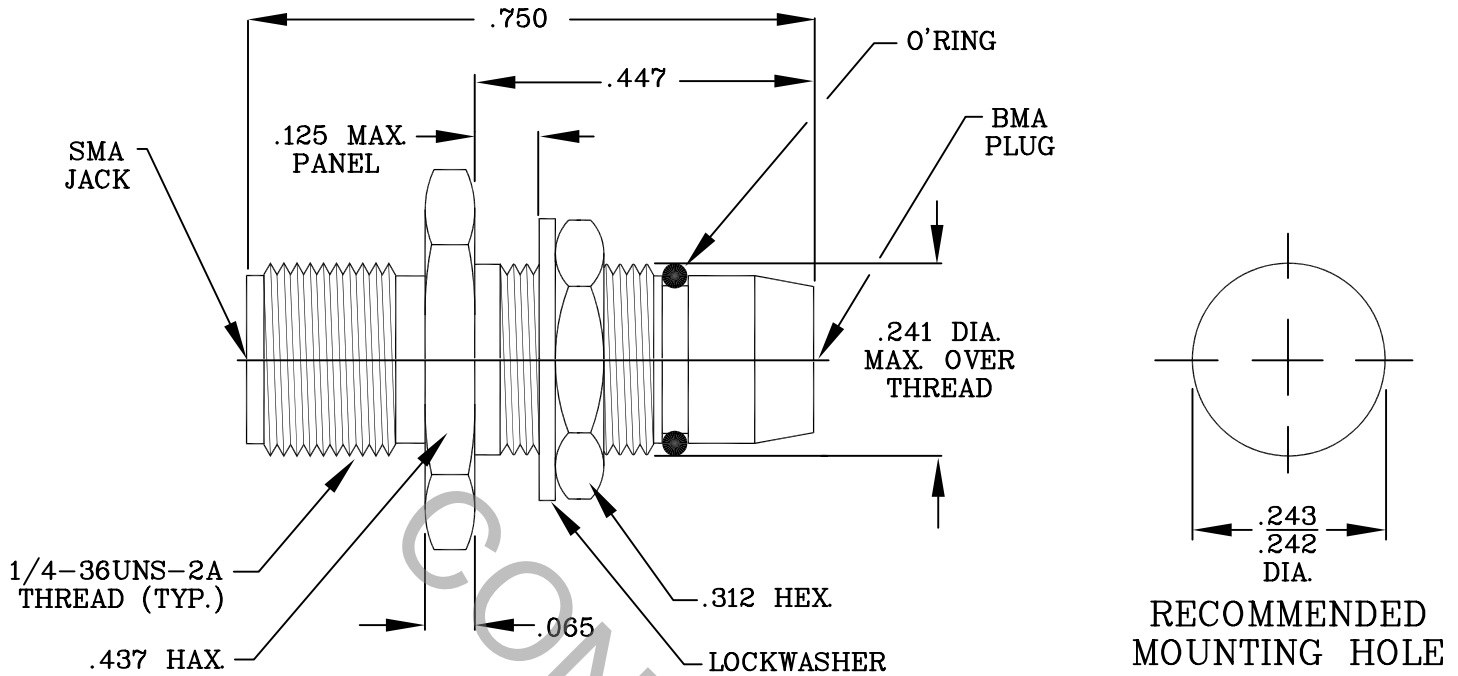


SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS PER MIL-STD-348A, Fig. 321.1 (BMA, PLUG) AND MIL-STD-348A, Fig. 310.2 (SMA, JACK)

2. ELECTRICAL

| | |
|---|----------------------------------|
| FREQUENCY RANGE GHz | DC TO 20.0 GHz. |
| VSWR (MAX.) * (FULLY MATED) | 1.05 + .007 x FGHz. |
| INSERTION LOSS (dB MAX.) | .035 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) | 1,000 |
| 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 | | | HAVERHILL, MA. 01835 |
|------|---------|-------|------|---|--------------|---------------------------|--|
| | | | | DECIMALS | FRACTIONAL | ANGULAR | |
| - | 773 | 10/90 | DGG | .X ± .030 .XX ± .010 .XXX ± .005 | ±1/64 | X° ± 1' 0" X° X' ± 15" | TITLE BMA, PLUG, TO SMA, JACK, BULKHEAD ADAPTER |
| A | 776 | 11/90 | T.S. | SURFACE ROUGHNESS 63 $\sqrt{\text{MIL-STD 10}}$. | | | |
| | | | | DRAWN DGG | DATE 10/90 | | DWG. NO. 1110-2899-6276 |
| | | | | APPROVED DGG | DATE 10/90 | | |
| | | | | CODE IDENT. 2J899 | SHEET 1 of 2 | | |

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT

- MIN. AXIAL FORCE (BOTH) _____ 6.0 LBS.
- MIN. RADIAL TORQUE _____ N/A

DYNAMATE ENGAGEMENT FORCES

- INSERTION (MAX OUNCES) _____ 48.0
- WITHDRAWAL (MIN. OUNCES) _____ 4.0

SMA AND DYNAMATE DURABILITY (MIN. MATING) _____ 1,000

SMA ENGAGEMENT FORCES (TORQUE) _____ 7 - 10 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

CONNECTOR BODY, LOCKWASHER AND LOCKNUT _____ STAINLESS STEEL PER ASTM A 581, TYPE 303, COND. A

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

INSULATOR _____ TEFLON PER D-1710-02, TYPE 1, GRADE 1, CLASS B.

O'RING _____ NITRILE (BUNA-N)

6. FINISH

CONNECTOR BODY, LOCKWASHER AND LOCKNUT _____ PASSIVATE PER AMS QQ-P-35, TYPE 2

CENTER CONTACT _____ GOLD PER ASTM B 488, TYPE 1, CODE C, CLASS 2.5 (.000100 MINIMUM THICKNESS) OVER NICKEL PER QQ-N-290, CLASS 1 (.000100 MINIMUM THICKNESS) OVER COPPER PER MIL-C-14550 (.000010 MINIMUM THICKNESS).

INSULATOR AND O'RING _____ N/A