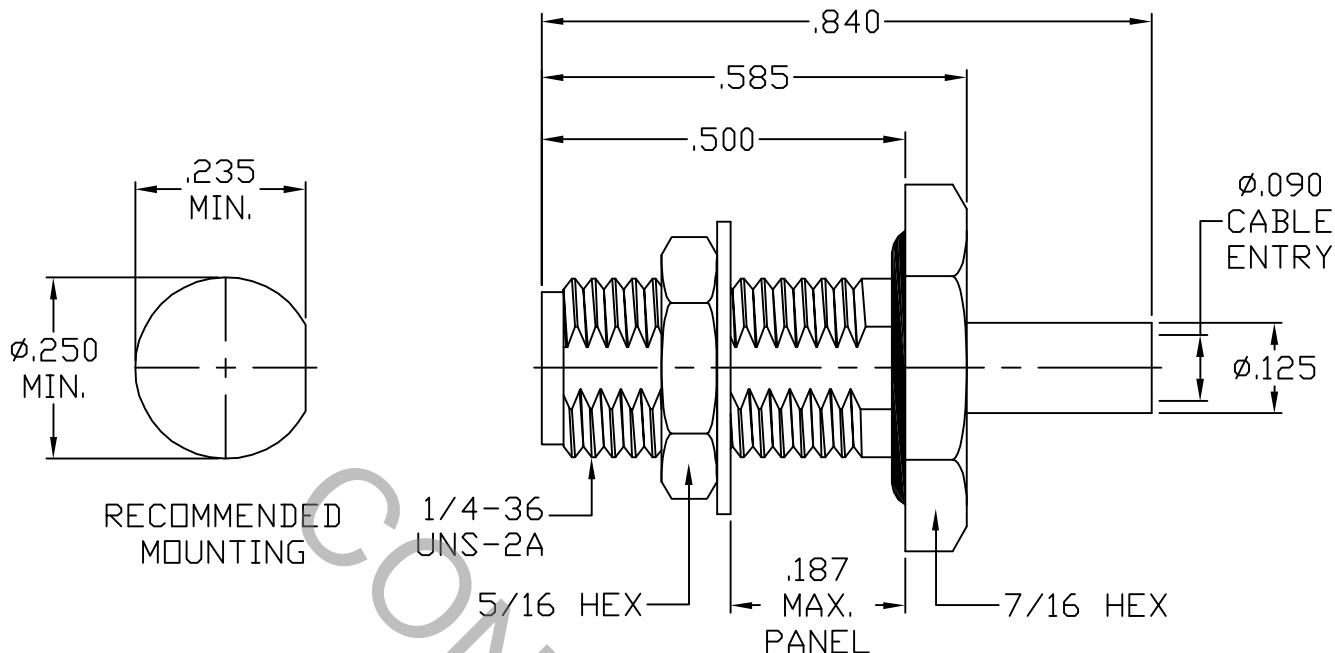


SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS Per MIL-STD-348 Fig. 310.2 (SMA JACK).

2. ELECTRICAL

| | |
|---|-------------------------------|
| FREQUENCY RANGE GHz | DC TO 18.0 GHz |
| VSWR (MAX) * | 1.07 + .007 x FGHz |
| INSERTION LOSS (dB MAX) * | .04 dB x $\sqrt{\text{FGHz}}$ |
| NOMINAL IMPEDANCE (OHMS) | 50 |
| VOLTAGE RATING (MAX. VRMS) | 333 |
| 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) | 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 TOLERANCES | | | HAVERHILL, MA 01835 |
|------|---------|---------|------|--|--------------|--|-------------------------|
| AA | 07-1962 | 9/27/07 | DC | DECIMALS | FRACTIONAL | ANGULAR | |
| | | | | .X ± .030 .XX ± .010 .XXX ± .005 | ± 1/64 | X ° ± 1'0" X ° X' ± 15' | |
| | | | | DRAWN DC | DATE 9/27/07 | TITLE SMA JACK BULKHEAD MOUNT DIRECT SOLDER TO $\phi .085$ SEMI-RIGID CABLE | |
| | | | | APPROVED DC | DATE 9/27/07 | | |
| | | | | CODE IDENT. | SHEET 1 OF 2 | DWG. NO. | 9910-8520-2401 |
| | | | | 2J899 | | | |

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT
 MAX AXIAL FORCE _____ N/A
 MAX RADIAL TORQUE _____ N/A
 CENTER CONTACT AXIAL FORCES
 ● INSERTION (MAX OUNCES) _____ INTERFACE 32.0
 ● WITHDRAWAL (MIN. OUNCES) _____ INTERFACE 2.0
 CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX LBS.) _____ 2.0
 CONNECTOR DURABILITY (MIN. CYCLES) _____ 250
 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.) (250 VRMS)

5. MATERIAL

BODY & HEX NUT _____ BRASS PER ASTM-B-16, TEMPER H02, ALLOY C36000.
 CONTACT _____ BERYLLIUM COPPER PER ASTM-B-196-90, COPPER ALLOY
 No. UNS-C17300, TEMPER TD04.
 INSULATOR _____ TEFLON PER ASTM-D-1710-02, TYPE 2, GRADE 1, CLASS A.
 O-RING _____ SILICONE RUBBER PER ZZ-R-765.
 LOCKWASHER _____ BRONZE (COPPER ALLOY) PER ASTM-B-591, TYPE 425.

6. FINISH

BODY, HEX NUT & LOCKWASHER _____ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS .08
 (.000003 MIN. THK.) OVER NICKEL per QQ-N-290
 (.000030 MIN. THK.) OVER COPPER per MIL-C-14550
 (.000010 MIN. THK.)
 CONTACT _____ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS .75
 (.000030 MIN. THK.) OVER NICKEL per QQ-N-290
 (.000030 MIN. THK.) OVER COPPER per MIL-C-14550
 (.000010 MIN. THK.)
 INSULATOR & O-RING _____ N/A