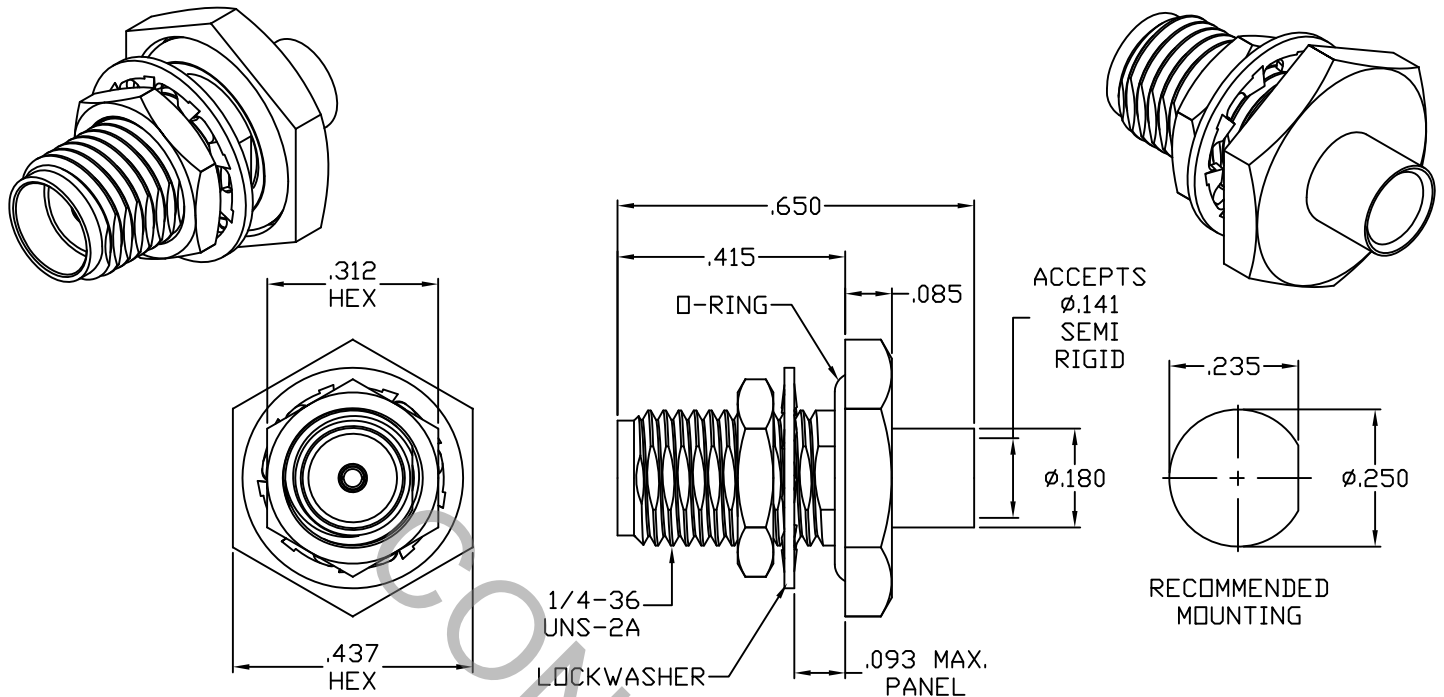


SPECIFICATION CONTROL DRAWING




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.) * | _____ | 1.05 + .005 x FGHz |
| INSERTION LOSS (dB MAX.) * | _____ | .03 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 |
|------|---------|----------|------|--|------------|-----------------------------|--|
| | | | | DECIMALS | FRACTIONAL | ANGULAR | |
| - | 1159 | 6/95 | TS | .X ± .030 .XX ± .010 .XXX ± .005 | ± 1/64 | X ° ± 1° 0' X ° X' ± 15' | |
| A | 1160 | 7/95 | TS | | | | |
| B | 1187 | 1/96 | TS | DRAWN | TS | DATE | 6/95 |
| BA | 10-1211 | 2/26/10 | TS | | | | |
| BB | 10-2183 | 12/22/10 | DC | APPROVED | TS | DATE | 6/95 |
| BC | 11-1203 | 3/3/11 | DC | CODE IDENT. | | SHEET 1 OF 2 | DWG. NO. 9910-4125-6400 |
| | | | | 2J899 | | | |

TITLE
SMA, JACK
BULKHEAD, DIRECT
SOLDER, Ø.141 S/R

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 40.0
 ● WITHDRAWAL (MIN. OUNCES) _____ INTERFACE 2.0
 CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX LBS.) _____ 2.0
 CONNECTOR DURABILITY (MIN. CYCLES) _____ 500
 RECOMMENDED MATING TORQUE _____ 7 - 10 IN. LBS.
 RECOMMENDED MOUNTING TORQUE _____ 22 - 28 IN. LBS.

4. ENVIRONMENTAL

TEMPERATURE CYCLING _____ MIL-STD-202, METHOD 107, 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 _____ STAINLESS STEEL PER ASTM-A-582, TYPE 303, COND. A
 LOCKWASHER _____ 410 SERIES STAINLESS STEEL
 CONTACT _____ BERYLLIUM COPPER PER ASTM-B-196/B, 196M-03, COPPER ALLOY No. UNS-C17300, TEMPER TD04.
 INSULATOR _____ TEFLON PER ASTM-D-1710-02, TYPE 1, GRADE 1, CLASS B.
 O-RING _____ SILICONE RUBBER PER ZZ-R-765.

6. FINISH

BODY _____ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 1.25
 (.000050 MIN. THK.) OVER NICKEL PER SAE-AMS-QQ-N-290
 CLASS 1 (.000150 MIN. THK.) OVER NICKEL (WOODS OR WATTS)
 (.000010 MIN. THK.)
 HEX NUT & LOCKWASHER _____ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 0.25
 (.000010 MIN. THK.) OVER NICKEL PER SAE-AMS-QQ-N-290
 CLASS 1 (.000050 MIN. THK.) OVER NICKEL (WOODS OR WATTS)
 (.000010 MIN. THK.)
 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.)
 INSULATOR & O-RING _____ N/A