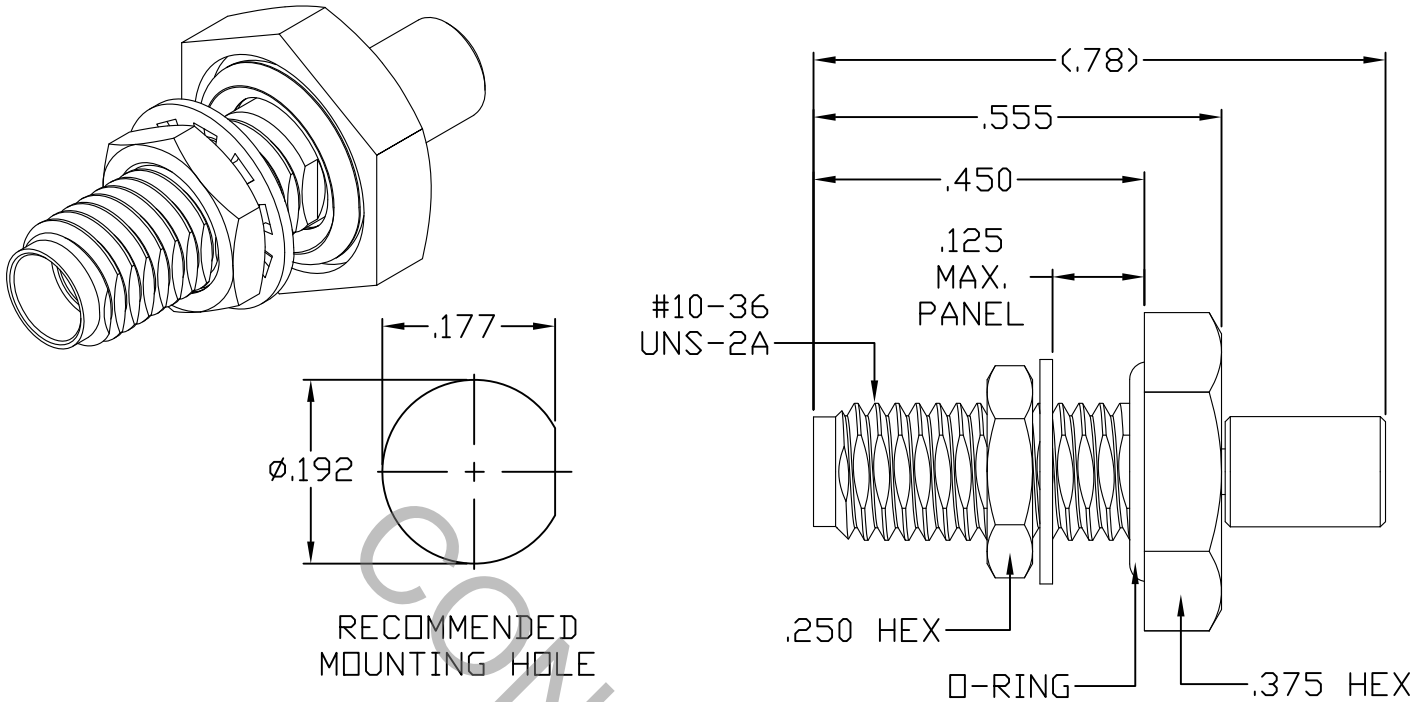


SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS PER MIL-STD-348A FIG. 319.2, (SSMA, JACK).

2. ELECTRICAL

| | | |
|---|-------|----------------------------------|
| FREQUENCY RANGE GHz | _____ | DC TO 3.0 GHz. |
| VSWR (MAX.) * | _____ | 1.07 + .010 x FGHz. |
| INSERTION LOSS (dB MAX.) * | _____ | .040 dB x $\sqrt{\text{FGHz}}$. |
| NOMINAL IMPEDANCE (OHMS) | _____ | 50 |
| VOLTAGE RATING (MAX. VRMS) | _____ | 167 |
| 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) | _____ | 3.0 |
| • 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 | 09-1250 | 3/23/09 | DC | DECIMALS | FRACTIONAL | ANGULAR | | |
| | | | | .X ± .030 .XX ± .010 .XXX ± .005 | ± 1/64 | X° ± 1'0" X° X' ± 15" | | |
| | | | | SURFACE ROUGHNESS 63 √ MIL-STD 10. | | | | |
| | | | | DRAWN | DC | DATE | 3/23/09 | TITLE SSMA JACK, BULKHEAD MOUNT, CRIMP ATTACHMENT, RG178 |
| | | | | APPROVED | DC | DATE | 3/23/09 | |
| | | | | CODE IDENT. | | | | DWG. NO. 9310-7831-6244 |
| | | | | 2J899 | SHEET 1 OF 2 | | | |

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT

- MIN. AXIAL FORCE _____ 4.0 LBS.
- MIN. RADIAL TORQUE _____ N/A

CENTER CONTACT AXIAL FORCES

- INSERTION (MAX. OUNCES) _____ 32.0
- WITHDRAWAL (MIN. OUNCES) _____ 1.0

CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. LBS.) _____ 2.0

CONNECTOR DURABILITY (MIN. CYCLES) _____ 500

INSTALLATION TORQUE _____ 5 TO 8 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.) (125 VRMS)

5. MATERIAL

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

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

CRIMP SLEEVE _____ BRASS PER ASTM-B16, TEMPER H02, ALLOY C36000.

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

O'RING _____ SILICONE RUBBER PER ZZ-R-765E, CLASS 1.

6. FINISH

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

CONTACTS _____ GOLD PER ASTM-B-488, TYPE 1, CODE C, CLASS 2.5
(.000010 MIN. THK.) OVER NICKEL PER QQ-N-290
(.000050 MIN. THK.) OVER COPPER PER MIL-C-14550.

CRIMP SLEEVE _____ NICKEL PER QQ-N-290, CLASS 1
(.000200 MIN. THK.) OVER COPPER PER MIL-C-14550.

INSULATOR AND O'RING _____ N/A