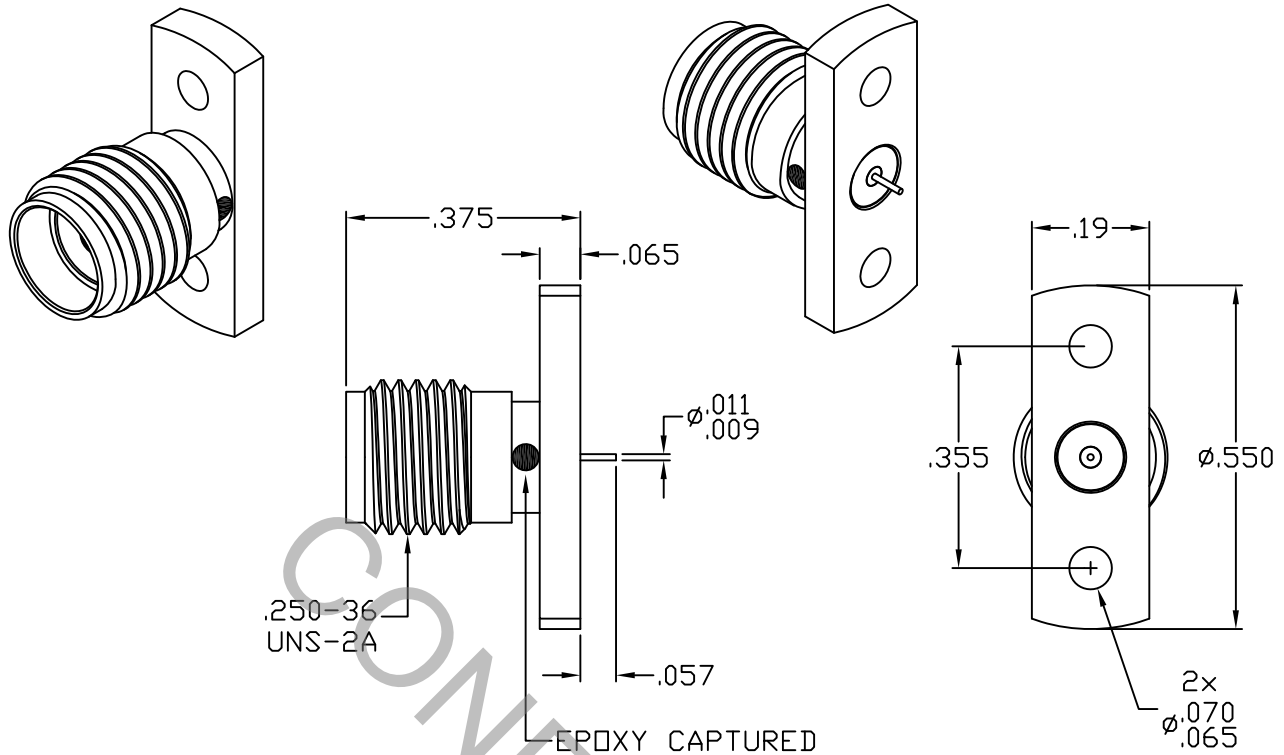


SPECIFICATION CONTROL DRAWING



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

2. ELECTRICAL

| | | |
|---|-------|--------------------------------|
| FREQUENCY RANGE GHz | _____ | DC TO 26.5 GHz. |
| VSWR (MAX.) * | _____ | 1.06 + .006 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) | _____ | -65 dB - FGHz. |
| TEMPERATURE RATING (DEGREES CENTIGRADE) | _____ | -65 °C TO + 165 °C |
| DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS) | _____ | 750 |
| 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 | 10-1707 | 8/3/10 | TS | DECIMALS | FRACTIONAL | ANGULAR | | |
| AB | 10-1750 | 8/17/10 | DC | .X ±.030 .XX ±.010 .XXX ±.005 | ±1/64 | X ° ±1'0" X ° X' ±15' | | |
| | | | | DRAWN | TS | DATE | 8/3/10 | TITLE SMA JACK, 2 HOLE FLANGE CAPTIVATED CONTACT Ø.010 PIN TERMINAL |
| | | | | APPROVED | DC | DATE | 8/3/10 | |
| | | | | CODE IDENT. | SHEET 1 OF 2 | | DWG. NO. | 9952-0032-6447 |
| | | | | 2J899 | | | | |

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT

MAX. AXIAL FORCE _____ 6.0 LBS.

MAX. RADIAL TORQUE _____ 4.0 IN. OZ.

CENTER CONTACT AXIAL FORCES

● INSERTION (MAX. OUNCES) _____ 40.0

● WITHDRAWAL (MIN. OUNCES) _____ 2.0

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

CONNECTOR DURABILITY (MIN. CYCLES) _____ 500

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.) (190 VRMS)

5. MATERIAL

BODY _____ STAINLESS STEEL PER ASTM-A-582, TYPE 303, COND. A

CONTACT _____ BERYLLIUM COPPER PER ASTM-B-196/B, 196M-02, COPPER ALLOY No. UNS C 17300, TEMPER TD04

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

6. FINISH

BODY _____ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 1.25
(.000050 Min. Thk.) OVER NICKEL PER QQ-N-290
(.000150 Min. Thk.) OVER NICKEL (WOODS OR WATTS)
(.000010 Min. Thk.).

CONTACT _____ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 2.5
(.000100 Min. Thk.) OVER NICKEL PER QQ-N-290
(.000050 Min. Thk.) OVER COPPER PER MIL-C-14550
(.000010 Min. Thk.).

INSULATOR _____ N/A