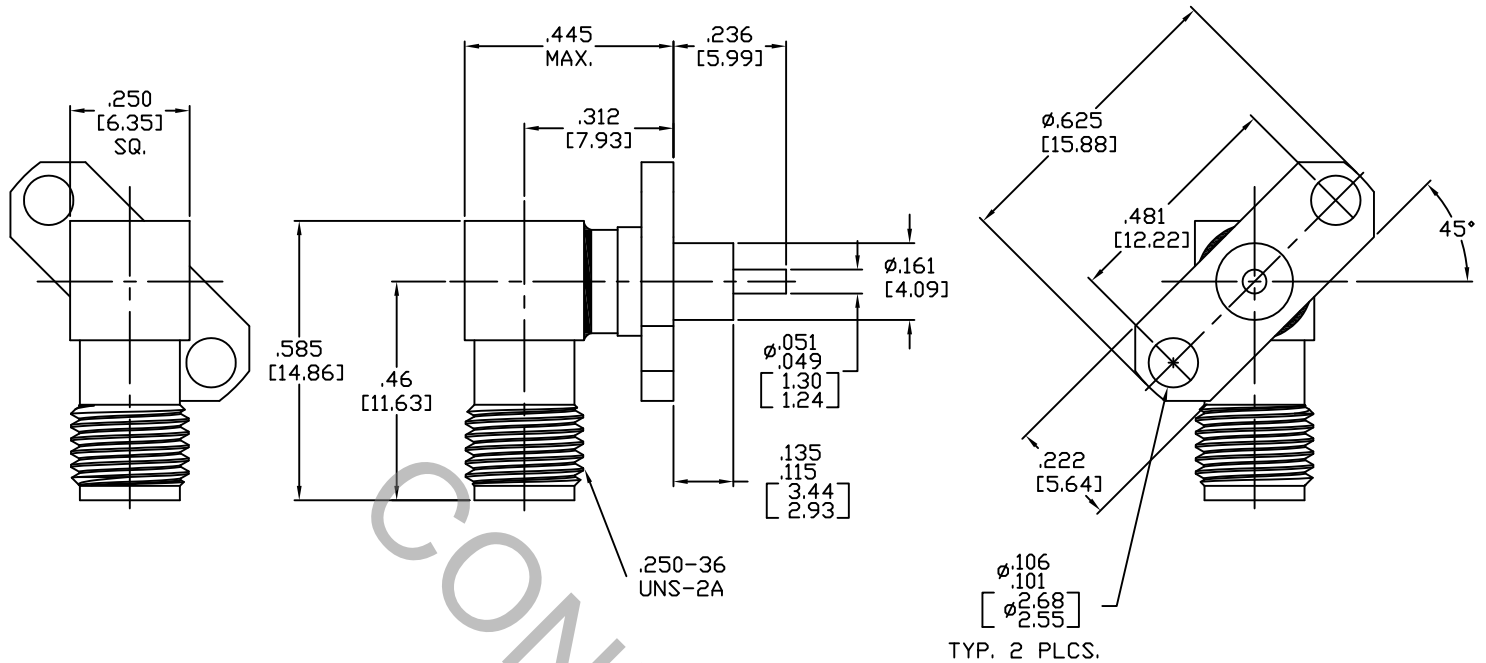


SPECIFICATION CONTROL DRAWING



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 + .010 x FGHz. |
| INSERTION LOSS (dB MAX) * | _____ | .05 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) | _____ | 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

This Document contains proprietary and confidential information.

| REV. | DCN NO. | DATE | APP. | DIMENSIONS ARE IN INCHES TOLERANCES | | | HAVERHILL, MA. 01835 |
|------|---------|---------|------|--|----------------------|---------------------------------------|---|
| AA | 14-1440 | 4/10/14 | TS | DECIMALS .X ± .030 .XX ± .010 .XXX ± .005 | FRACTIONAL ± 1/64 | ANGULAR X ° ± 1'0" X ° X' ± 15" | |
| | | | | SURFACE ROUGHNESS 63 $\sqrt{\text{MIL-STD 10}}$. | | | TITLE SMA JACK, RIGHT ANGLE, 2 HOLE FLANGE, 0.050 PIN TERMINAL |
| | | | | DRAWN TS | DATE 4/10/14 | | |
| | | | | APPROVED DC | DATE 4/10/14 | | |
| | | | | CODE IDENT. 2J899 | SHEET 1 OF 2 | DWG. NO. 9956-2031-6242 | |

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 MAX
- WITHDRAWAL (MIN. OUNCES) _____ 2.0 MIN.

CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX IN. 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

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

CENTER CONTACTS _____ BERYLLIUM COPPER PER ASTM B196/B, 196M-03, COPPER ALLOY No. UNS C17300, TEMPER TD04.

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

6. FINISH

CONNECTOR BODY _____ PASSIVATE PER AMS-2700, TYPE 2, CLASS 4

CENTER CONTACTS _____ GOLD PER ASTM B 488, TYPE 1, 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.).

INSULATORS _____ N/A