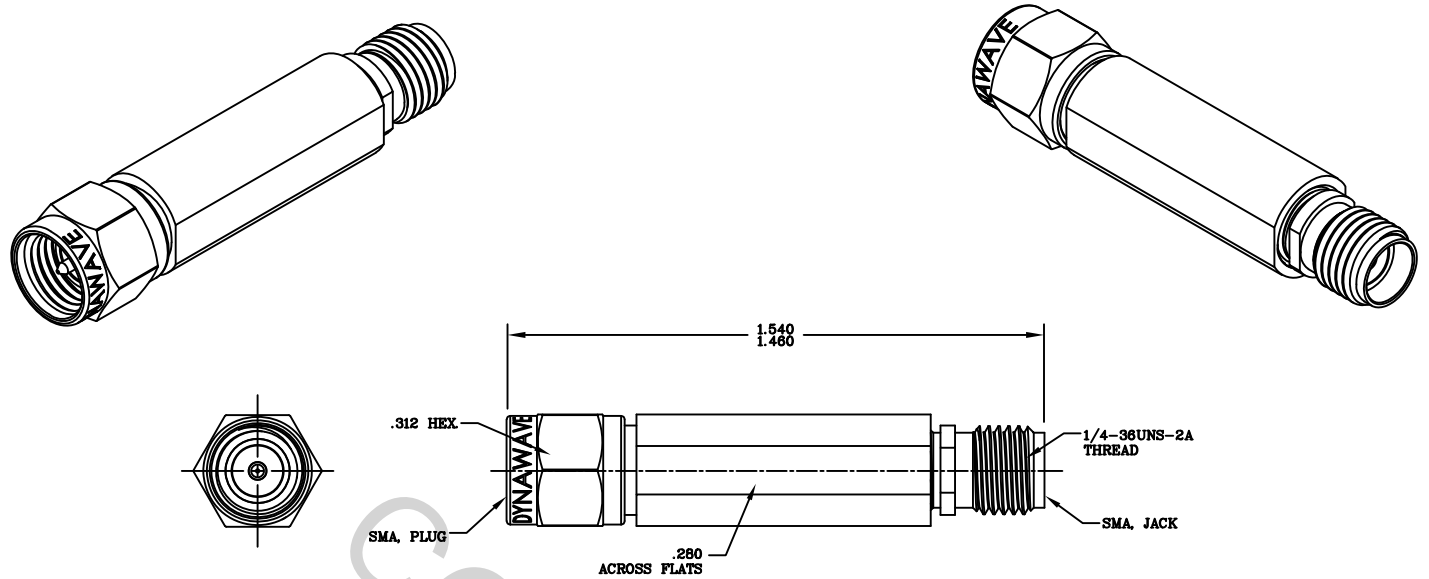


SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS PER MIL-STD-348, Fig. 310-1 (SMA, PLUG)
 INTERFACE DIMENSIONS PER MIL-STD-348, Fig. 310-2 (SMA, JACK)

2. ELECTRICAL

FREQUENCY RANGE GHz _____ DC TO 26.0 GHz.
 VSWR (MAX.) * _____ 1.05 + .004 x FGHz.
 INSERTION LOSS (dB MAX.) _____ .015 dB x $\sqrt{\text{FGHz}}$.
 NOMINAL IMPEDANCE (OHMS) _____ 50
 VOLTAGE RATING (MAX. VRMS) _____ 335
 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

This Document contains proprietary and confidential information.

RoHS
COMPLIANT

| REV. | DCN NO. | DATE | APP. | DIMENSIONS ARE IN INCHES TOLERANCES | | | HAVERHILL, MA. 01835 |
|------|---------|----------|------|----------------------------------------|------------|--------------------------|----------------------------------------------------|
| | | | | DECIMALS | FRACTIONAL | ANGULAR | |
| AA | 04-0388 | 11/29/04 | TS | .X ± .030 .XX ± .010 .XXX ± .005 | ± 1/64 | X° ± 1'0" X° X' ± 15" | TITLE SMA, PLUG TO SMA, JACK ADAPTER |
| AB | 18-1839 | 8/2/18 | DC | SURFACE ROUGHNESS 63 √ MIL-STD 10. | | | |
| | | | | DRAWN | TS | DATE | 11/29/04 |
| | | | | APPROVED | DC | DATE | 11/29/04 |
| | | | | CODE IDENT. | | | DWG. NO. 1100-9899-6221 |
| | | | | 2J899 | SHEET | 1 OF 2 | |

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT

- MIN. AXIAL FORCE _____ 6.0 LBS.
- MIN. RADIAL TORQUE _____ 4.5 IN.OZ.

CENTER CONTACT AXIAL FORCES

- INSERTION (MAX. OUNCES) _____ 48.0
- WITHDRAWAL (MIN. OUNCES) _____ 2.0

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

CONNECTOR DURABILITY (MIN. CYCLES) _____ 500

RECOMMENDED MATING TORQUE (SMA, JACK) _____ 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 AND COUPLING NUT _____ STAINLESS STEEL PER ASTM-A-582, TYPE 303, COND. A

CONTACT AND RETAINING RING _____ 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.

GASKET _____ SILICONE RUBBER PER ZZ-R-765.

6. FINISH

BODY AND COUPLING NUT _____ PASSIVATE PER AMS-2700, TYPE 2, CLASS 4.

CONTACT _____ GOLD PER ASTM-B-488, TYPE II, 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.)

GASKET _____ N/A

INSULATOR _____ N/A