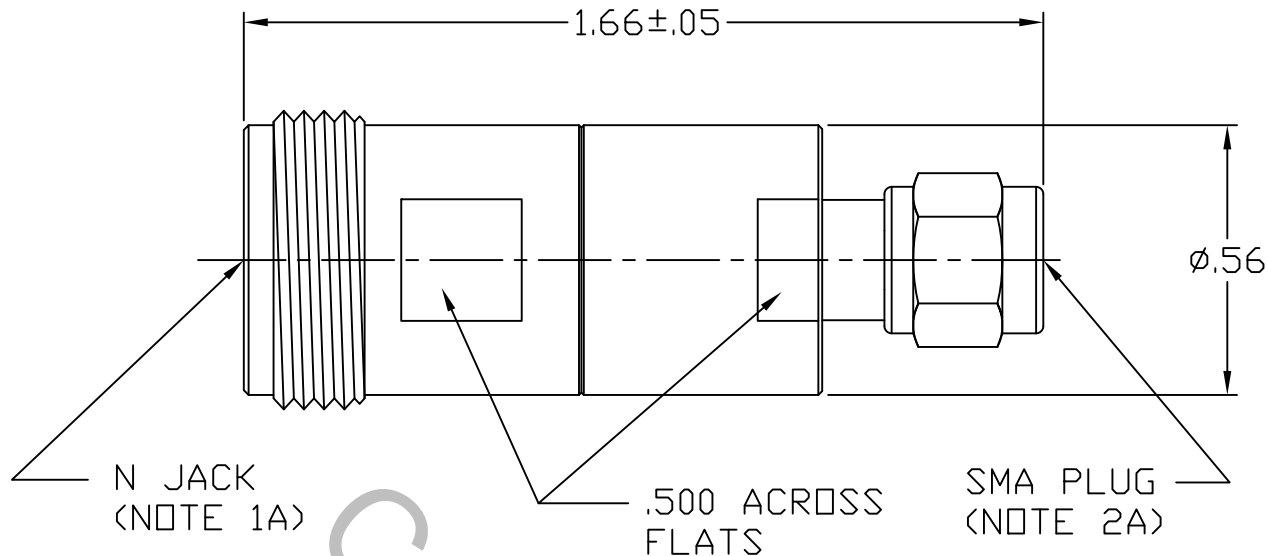


SPECIFICATION CONTROL DRAWING




1. MATING
- 1A. INTERFACE DIMENSIONS PER MIL-STD-348-304.2 N SOCKET CONTACT.
 - 2A. INTERFACE DIMENSIONS PER MIL-STD-348-310.1 SMA PIN CONTACT.

2. ELECTRICAL

| | |
|---|--------------------------------|
| FREQUENCY RANGE GHz | DC TO 18.0 GHz. |
| VSWR (MAX.) * | 1.25:1 |
| INSERTION LOSS (dB MAX.) | .040 dB x $\sqrt{\text{FGHz}}$ |
| NOMINAL IMPEDANCE (OHMS) | 50 |
| VOLTAGE RATING (MAX. VRMS) | 330 |
| RF LEAKAGE (MIN. dB DOWN) | 60 dB - FGHz. |
| TEMPERATURE RATING (DEGREES CENTIGRADE) | -65°C TO +165°C |
| DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS) | 1,000 |
| INSULATION RESISTANCE (MIN. MEGOHMS) | 10,000 |
| CONTACT RESISTANCE | |
| • CENTER CONTACT (MAX. MILLIOHMS) | 4.5 |
| • 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 | 03-2355 | 10/30/03 | DC | DECIMALS: .X +.030 .XX ± .010 .XXX ± .005 FRACTIONAL: ± 1/64 ANGULAR: X° ± 1' 0" X° X' ± 15" | TITLE N JACK TO SMA PLUG ADAPTER |
| BA | 12-1081 | 1/25/12 | TS | SURFACE ROUGHNESS 63 $\sqrt{\text{MIL-STD 10}}$. | |
| | | | | | |
| | | | | DRAWN DC DATE 10/30/03 | |
| | | | | APPROVED DC DATE 10/30/03 | |
| | | | | CODE IDENT. 2J899 | |
| | | | | SHEET 1 OF 2 | |
| | | | | DWG. NO. | 1100-7598-6250 |

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT

- MIN. AXIAL FORCE _____ 6.0 LBS.
- MIN. RADIAL TORQUE _____ N/A

CENTER CONTACT AXIAL FORCES

- INSERTION (MAX. OUNCES) _____ 32.0
- WITHDRAWAL (MIN. OUNCES) _____ 2.0

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

CONNECTOR DURABILITY (MIN. CYCLES) _____ 1,000

RECOMMENDED MATING TORQUE (SMA, PLUG) _____ 7 - 10 IN. LBS.

RECOMMENDED MATING TORQUE (N JACK) _____ 12 - 15 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 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 _____ N/A

GASKET AND RETAINING RING _____ N/A