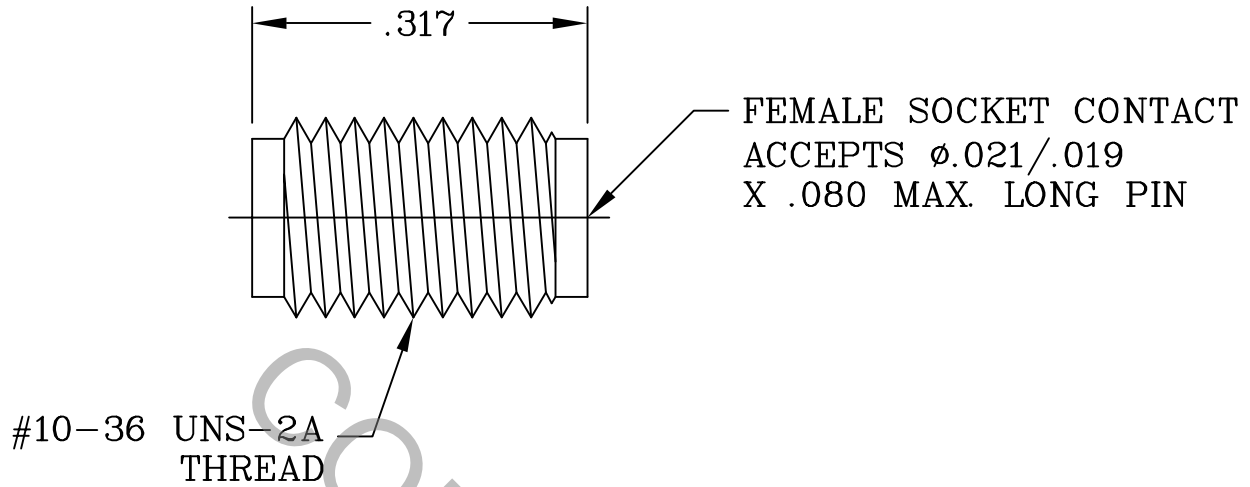


SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS FOR SSMA JACK per DYNAWAVE SPECIFICATION MD-97 (SSMA 46 GHz.)

2. ELECTRICAL

| | | |
|---|-------|--------------------|
| FREQUENCY RANGE GHz | _____ | DC TO 46.0 GHz |
| VSWR (MAX) * | _____ | 1.05 + .008 x FGHz |
| INSERTION LOSS (dB MAX) * | _____ | .04 dB x √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) | _____ | 8.0 |
| • OUTER CONTACT (MAX. MILLIOHMS) | _____ | 2.0 |

* TERMINATED IN A 50 OHM LOAD

| REV. | DCN NO. | DATE | APP. | DIMENSIONS ARE IN INCHES TOLERANCES | | | HAVERRHILL, MA. 01835 |
|------|---------|---------|------|--|--------------|---------------------------|---|
| | | | | DECIMALS | FRACTIONAL | ANGULAR | |
| AA | 08-1241 | 3/5/08 | TS | .X ± .030 .XX ± .010 .XXX ± .005 | ±1/64 | X ° ± 1'0" X ° X ± 15' | |
| AB | 08-1466 | 4/29/08 | DC | | | | |
| | | | | DRAWN | TS | DATE 3/5/08 | TITLE SSMA, JACK, SCREW-IN FIELD REPLACEABLE (46 GHz.) |
| | | | | APPROVED | DC | DATE 3/5/08 | |
| | | | | CODE IDENT. | | | DWG. NO. 9730-0081-6201 |
| | | | | 2J899 | SHEET 1 OF 2 | | |

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT

MAX AXIAL FORCE _____ 4.5 LBS.

MAX RADIAL TORQUE _____ N/A

CENTER CONTACT AXIAL FORCES

● INSERTION (MAX OUNCES) _____ INTERFACE 40.0 , REAR 32.0

● WITHDRAWAL (MIN. OUNCES) _____ INTERFACE 1.0, REAR 1.0

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

CONNECTOR DURABILITY (MIN. CYCLES) _____ 500

RECOMMENDED MATING TORQUE

● INTERFACE _____ 6 - 8 IN. LBS.

● PACKAGE _____ 17 - 20 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 581, TYPE 303, COND. A

CONTACT _____ BERYLLIUM COPPER PER ASTM B196/B, 196M-03, COPPER ALLOY No. UNS C 17300, TEMPER TD04

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

6. FINISH

BODY _____ PASSIVATE PER AMS QQ-P-35, TYPE 2

CONTACT _____ GOLD PER ATSM B 488, TYPE II, GRADE C, CLASS 2.5 (.000100 Minimum Thickness) OVER NICKEL per QQ-N-290 CLASS 1 (.000100 Minimum Thickness) OVER COPPER per MIL-C-14550 (.000010 Minimum Thickness).

INSULATOR _____ N/A