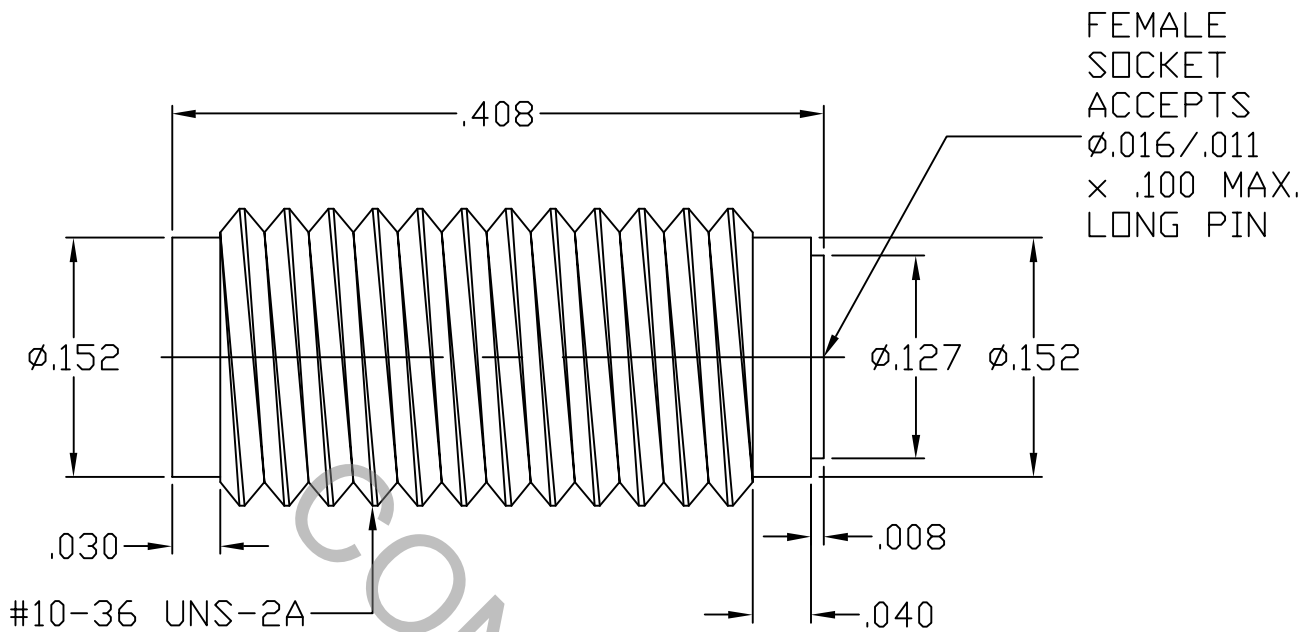


SPECIFICATION CONTROL DRAWING




1. MATING INTERFACE DIMENSIONS Per MIL-STD-348 Fig. 319.2 (SSMA JACK).

2. ELECTRICAL

| | |
|---|--------------------|
| FREQUENCY RANGE GHz | DC TO 36.0 GHz |
| VSWR (MAX) * | 1.06 + .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) | 6.0 |
| • OUTER CONTACT (MAX. MILLIOHMS) | 2.0 |

* TERMINATED IN A 50 OHM LOAD

| REV. | DCN NO. | DATE | APP. | DIMENSIONS ARE IN INCHES TOLERANCES | | |  HAVERHILL, MA 01835 |
|------|---------|---------|------|--|----------------------|---|--|
| AA | 05-2306 | 12/8/05 | DC | DECIMALS .X ± .030 .XX ± .010 .XXX ± .005 | FRACTIONAL ± 1/64 | ANGULAR X ° ± 1' 0" X ° X ± 15' | |
| AB | 06-1148 | 2/8/06 | DC | | | | |
| | | | | | | | |
| | | | | DRAWN TS | DATE 12/8/05 | TITLE SSMA JACK THREAD-IN MIC. PKG. ACCEPTS Ø.016/.011 PIN | |
| | | | | APPROVED DC | DATE 12/8/05 | | |
| | | | | CODE IDENT. 2J899 | SHEET 1 OF 2 | DWG. NO. 9730-0081-6200 | |
| | | | | | | | |

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 AND REAR 32.0
● WITHDRAWAL (MIN. OUNCES) _____ INTERFACE AND REAR 1.0

CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX IN. LBS.) — 2.0
CONNECTOR DURABILITY (MIN. CYCLES) _____ 500
RECOMMENDED MATING TORQUE _____ 5 - 8 IN. LBS.
RECOMMENDED MOUNTING TORQUE _____ 17 - 20 IN. LBS.
INSTALLATION TORQUE TOOL _____ 93-TORQUE-20

4. ENVIRONMENTAL

TEMPERATURE CYCLING _____ MIL-STD-202, METHOD 102, COND. C (-65° c TO + 200° 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 AMS 5640, TYPE 303, COND. A
CONTACT _____ BERYLLIUM COPPER PER ASTM B196-90, COPPER ALLOY
No. UNS-C17300, TEMPER TD04.
INSULATOR _____ TEFLON PER ASTM D 4894-91.

6. FINISH

BODY _____ PASSIVATE PER AMS QQ-P-35A, TYPE I
CONTACT _____ GOLD PER ASTM B 488, TYPE II, 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