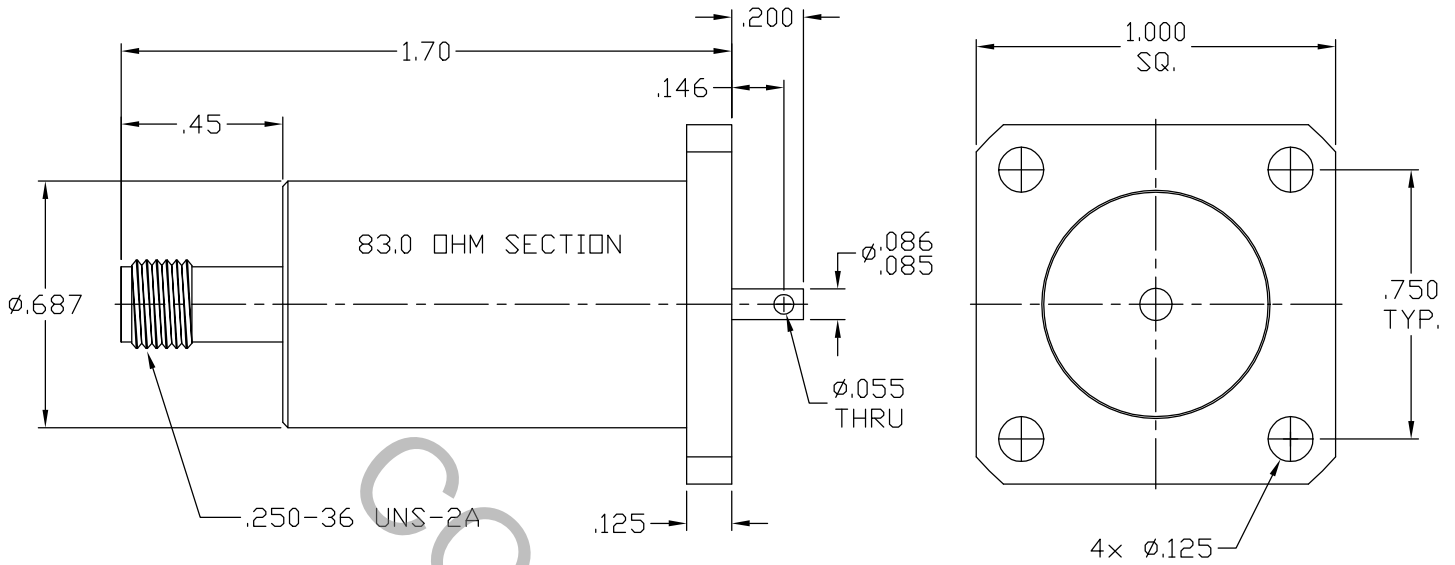


SPECIFICATION CONTROL DRAWING




1. MATING INTERFACE DIMENSIONS FOR SMA JACK per MIL-STD-348 (Fig. 310-2).

2. ELECTRICAL

| | | |
|---|-------|-------------------------|
| FREQUENCY RANGE GHz | _____ | DC TO 2.0 GHz. |
| VSWR (MAX.) * | _____ | N/A |
| INSERTION LOSS (dB MAX.) * | _____ | .050 dB x \sqrt{FGHz} |
| NOMINAL IMPEDANCE (OHMS) | _____ | 50 AT SMA ONLY |
| VOLTAGE RATING (MAX. VRMS) | _____ | 400 |
| RF LEAKAGE (MIN. dB DOWN) | _____ | -90 dB - FGHz. |
| TEMPERATURE RATING (DEGREES CENTIGRADE) | _____ | -65 °c TO + 165 °c |
| DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS) | _____ | 1,250 |
| INSULATION RESISTANCE (MIN. MEGOHMS) | _____ | 10,000 |
| CONTACT RESISTANCE | | |
| • CENTER CONTACT (MAX. MILLIOHMS) | _____ | 3.0 |
| • 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 | 05-1219 | 2/18/05 | DC | DECIMALS .X ±.030 .XX ±.010 .XXX ±.005 | FRACTIONAL ±/64 | ANGULAR X ° ± 1 0' X ° X' ± 15' | |
| | | | | DRAWN | DC | DATE 2/18/05 | TITLE SMA JACK 4 HOLE FLANGE .010 DIA. TERMINAL |
| | | | | APPROVED | DC | DATE 2/18/05 | |
| | | | | CODE IDENT. 2J899 | SHEET 1 OF 2 | | DWG. NO. 9954-0031-6200 |

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) _____ 32.0
● WITHDRAWAL (MIN. OUNCES) _____ 2.0
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.) (300 VRMS)

5. MATERIAL

BODY _____ STAINLESS STEEL PER ASTM A 581, TYPE 303, COND. A
CONTACT _____ BERYLLIUM COPPER PER ASTM B196-90, COPPER ALLOY
No. UNS-C17300, TEMPER TD04.
INSULATOR _____ TEFLON PER D 1457

6. FINISH

BODY _____ PASSIVATED PER QQ-P-35, TYPE 2
CONTACT _____ GOLD PER ATSM B 488, TYPE I, 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