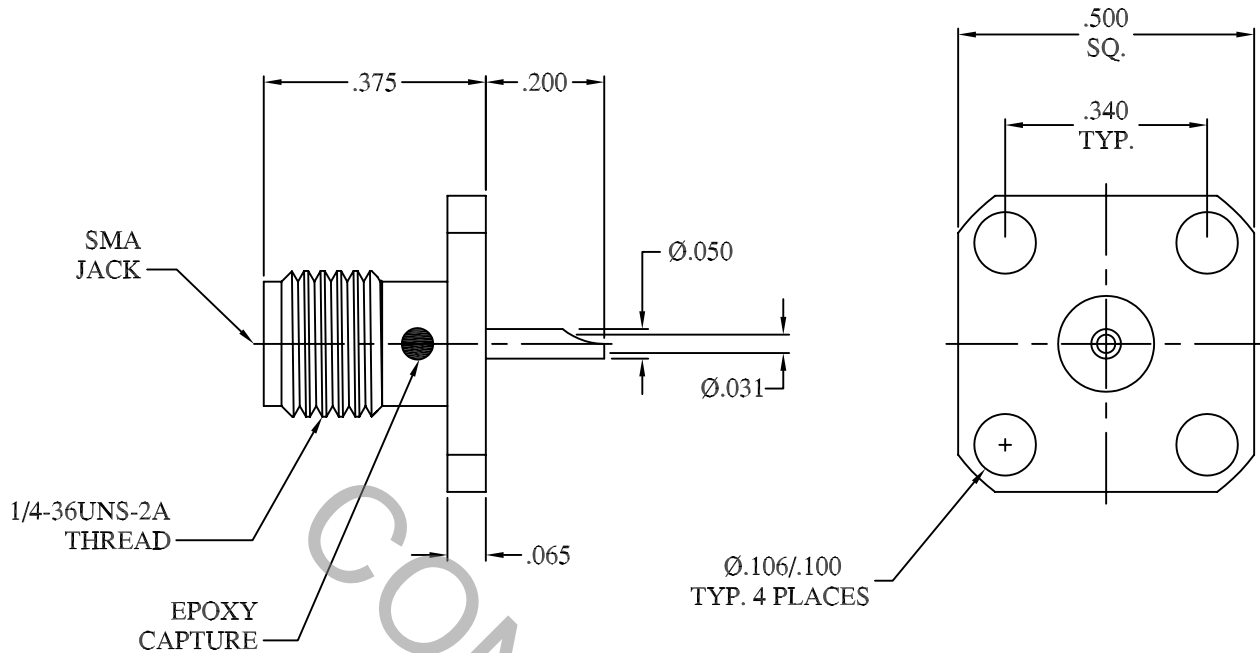


SPECIFICATION CONTROL DRAWING




1. MATING INTERFACE DIMENSIONS per MIL-STD-348 Fig. 310.2 (SMA JACK).

2. ELECTRICAL

| | | |
|---|-------|--------------------|
| FREQUENCY RANGE GHz | _____ | DC TO 18.0 GHz. |
| VSWR (MAX.) * | _____ | N/A |
| INSERTION LOSS (dB MAX.) * | _____ | N/A |
| NOMINAL IMPEDANCE (OHMS) | _____ | 50 |
| VOLTAGE RATING (MAX. VRMS) | _____ | 250 |
| RF LEAKAGE (MIN. dB DOWN) | _____ | -80 dB - FGHz. |
| TEMPERATURE RATING (DEGREES CENTIGRADE) | _____ | -65 °c TO + 165 °c |
| DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS) | _____ | 750 |
| INSULATION RESISTANCE (MIN. MEGOHMS) | _____ | 10,000 |
| 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 | | |  GEORGETOWN MA. 01833 |
|------|---------|------|------|--|--------------|-------------|---|
| AA | 08-1031 | | | DECIMALS | FRACTIONAL | ANGULAR | |
| | | | | .X ±.030 | | X ° ±1'0" | TITLE SMA, JACK, 4 HOLE FLANGE CAPTIVATED SOLDER CUP TERMINAL |
| | | | | .XX ±.010 | ±1/64 | X ° X' ±15' | |
| | | | | .XXX ±.005 | | | |
| | | | | DRAWN TS | DATE 1/8/08 | | |
| | | | | APPROVED DC | DATE 1/8/08 | | |
| | | | | CODE IDENT. | SHEET 1 OF 2 | DWG. NO. | 9954-0022-2450 |
| | | | | 2J899 | | | |

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) _____ 48.0

● 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.) (250 VRMS)

5. MATERIAL

BODY _____ BRASS PER ASTM B16, TEMPER H02, ALLOY C36000

CONTACT _____ BERYLLIUM COPPER PER ASTM B 196/B, 196M-03, COPPER ALLOY No. UNS C 17800, TEMPER TD04

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

6. FINISH

BODY _____ GOLD PER ATSM B 488, OVER NICKEL PER QQ-N-290.

CONTACT _____ GOLD PER ATSM B 488, OVER NICKEL PER QQ-N-290.

INSULATOR _____ N/A