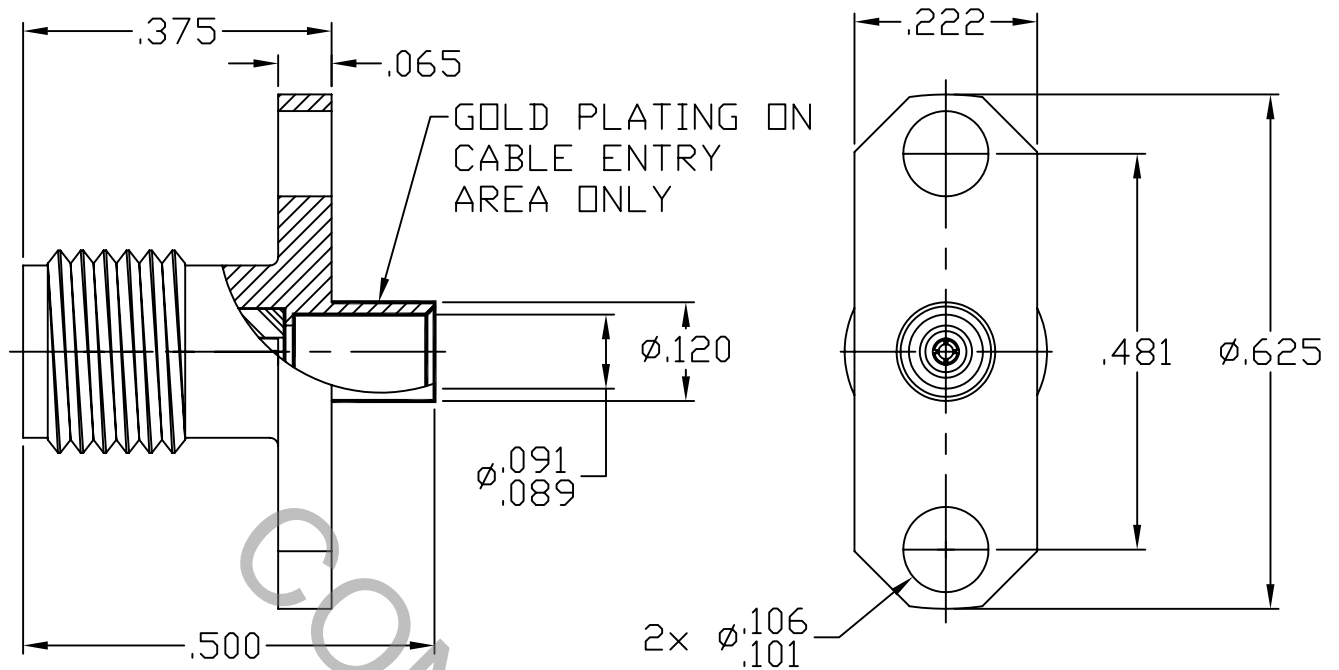


# SPECIFICATION CONTROL DRAWING



## CAPTURED CENTER CONTACT

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

2. ELECTRICAL

|   |       |                               |
|---|-------|-------------------------------|
| FREQUENCY RANGE GHz                         | _____ | DC TO 26.5 GHz                |
| VSWR (MAX.) *                               | _____ | 1.07 + .007 x FGHz            |
| INSERTION LOSS (dB MAX.) *                  | _____ | .04 dB x $\sqrt{\text{FGHz}}$ |
| 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)        | _____ | 10,000                        |
| CONTACT RESISTANCE                          |       |                               |
| • CENTER CONTACT (MAX. MILLIOHMS)           | _____ | 6.0                           |
| • OUTER CONTACT (MAX. MILLIOHMS)            | _____ | 2.0                           |

\* TERMINATED IN A 50 OHM LOAD

**RoHS**  
COMPLIANT

| REV. | DCN NO. | DATE     | APP. | DIMENSIONS ARE IN INCHES<br>TOLERANCES |               |              | <br>HAVERHILL, MA 01835   |
|------|---------|----------|------|--|---------------|--------------|---|
| AA   | 08-1904 | 10/17/08 | TS   | DECIMALS                               | FRACTIONAL    | ANGULAR      |   |
|      |         |          |      | .X ± .030                              |               | X ° ± 1 0'   | TITLE    SMA, JACK<br>2 HOLE FLANGE<br>DIRECT SOLDER TO<br>.085 SEMI-RIGID CABLE<br><br>DWG. NO. 9952-8521-6840 |
|      |         |          |      | .XX ± .010                             | ±/64          | X ° X' ± 15' |   |
|      |         |          |      | .XXX ± .005                            |               |              |   |
|      |         |          |      | DRAWN TS                               | DATE 10/17/08 |              |   |
|      |         |          |      | APPROVED DC                            | DATE 10/17/08 |              |   |
|      |         |          |      | CODE IDENT.                            | SHEET 1 OF 2  |              |   |
|      |         |          |      | 2J899                                  |               |              |   |

# 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 32.0

● WITHDRAWAL (MIN. OUNCES) \_\_\_\_\_ INTERFACE 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 + 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 ASTM A 582, TYPE 303, COND. A

CONTACT \_\_\_\_\_ BERYLLIUM COPPER PER ASTM B196/B, 196M-03, COPPER ALLOY No. UNS-C17300, TEMPER TD04.

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

## 6. FINISH

BODY (CABLE ENTRY AREA AS SHOWN) \_\_\_\_\_ GOLD PER ASTM B 488, TYPE II, CODE C, CLASS 1.25 (.000050 MIN. THK) OVER NICKEL PER QQ-N-290, CLASS 1, (.000150 MIN. THK) OVER COPPER PER MIL-C-14550, (.000010 MIN. THK)

BODY (OTHER THEN CABLE ENTRY AREA AS SHOWN) — PASSIVATE PER AMS QQ-P-35A, TYPE 2.

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