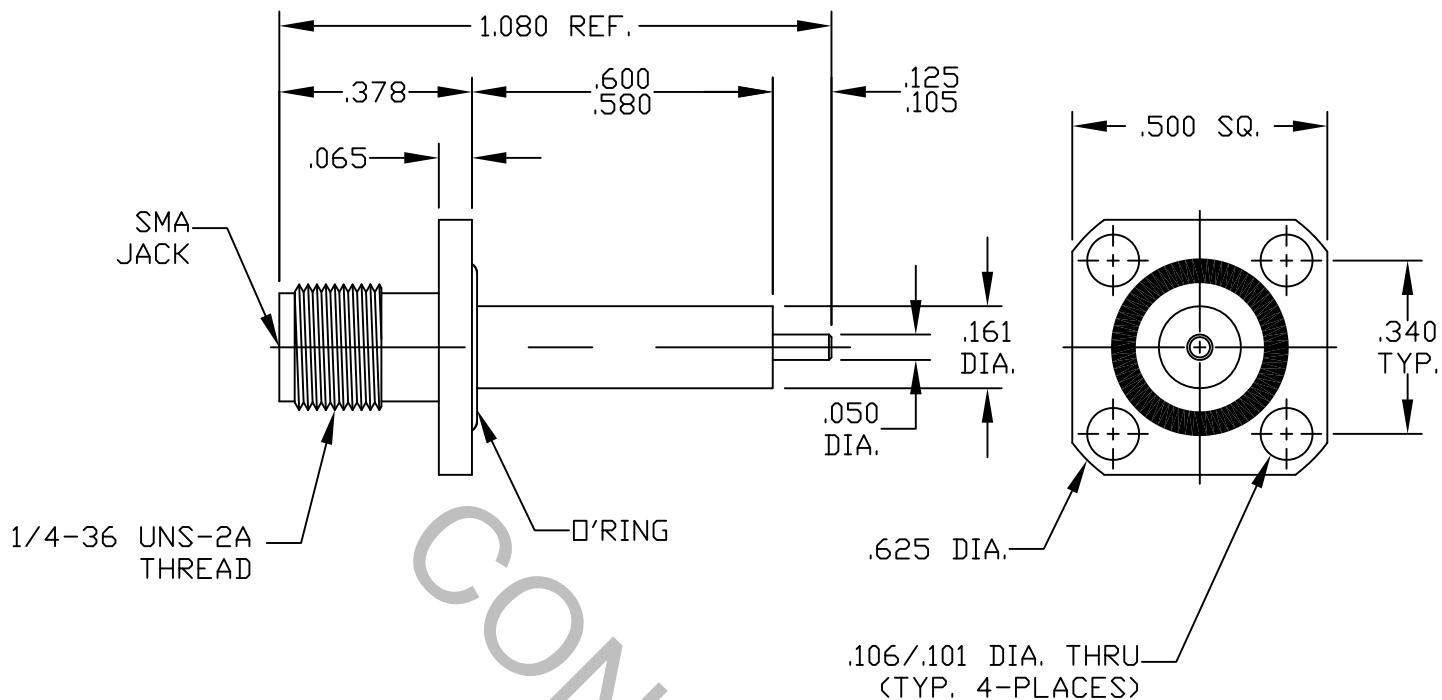


# SPECIFICATION CONTROL DRAWING




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

## 2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 18.0 GHz.
VSWR (MAX.) *	_____	1.10 + .010 x FGHz.
INSERTION LOSS (dB MAX.)	_____	.07 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)	_____	5,000
CONTACT RESISTANCE		
• CENTER CONTACT (MAX. MILLIOHMS)	_____	18.0
• OUTER CONTACT (MAX. MILLIOHMS)	_____	2.0

\* TERMINATED IN A 50 OHM LOAD

**RoHS**  
COMPLIANT

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 HAVERHILL, MA. 01835
AA	02-0644	1/16/02	BN	DECIMALS	FRACTIONAL	ANGULAR	
AB	02-0085	1/31/02	BN	.X ±.030 .XX ±.010 .XXX ±.005	±1/64	X °±f 0' X °X'± 15'	TITLE <b>HERMETIC SMA, JACK 4 HOLE FLG. MOUNT</b>
BA	02-0686	8/17/02	BN	DRAWN	G.E.	DATE 1/10/02	
BB	13-1872	6/14/13	TS	APPROVED	B.N.	DATE 1/16/02	
				CODE IDENT.			
				2J899	SHEET 1 OF 2	DWG. NO. 9954-0431-6450	

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

### CAPTIVATION-CENTER CONTACT

MAX.AXIAL FORCE \_\_\_\_\_ 6.0 LBS.  
MAX. RADIAL TORQUE \_\_\_\_\_ N/A  
CENTER CONTACT AXIAL FORCES  
● INSERTION (MAX. OUNCES) \_\_\_\_\_ INTERFACE 48.0 OZ.  
● WITHDRAWAL (MIN. OUNCES) \_\_\_\_\_ INTERFACE 2.0 OZ.  
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 )  
HERMETICITY \_\_\_\_\_  $1 \times 10^{-8}$  CC/SEC.

## 5. MATERIAL

BODY AND PRESS RING \_\_\_\_\_ STAINLESS STEEL PER ASTM-A-582, TYPE 303, COND. A  
CONTACT \_\_\_\_\_ BERYLLIUM COPPER PER ASTM-B-196/B, 196M-03, COPPER ALLOY No. UNS-C17300, TEMPER TD04.  
INSULATOR \_\_\_\_\_ TEFLON PER ASTM-D-1710-02, TYPE 1, GRADE 1, CLASS B.  
GLASS \_\_\_\_\_ CORNING 7070 OR EQUIVALENT  
CONTACT AND GLASS PIN \_\_\_\_\_ KOVAR PER MIL-I-23011  
O'RING \_\_\_\_\_ ETHYLENE PROPLENE PER ASTM D2000-70 (PARKER COMPOUND NUMBER E540-80)

## 6. FINISH

BODY AND GLASS PIN \_\_\_\_\_ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 1.27 (.000050 MIN. THK.) OVER NICKEL PER SAE-AMS-QQ-N-290 CLASS 1 (.000150 MIN. THK.) OVER NICKEL (WOODS OR WATTS) (.000010 MIN. THK.)  
CONTACT \_\_\_\_\_ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 1.27 (.000050 MIN. THK.) OVER NICKEL PER SAE-AMS-QQ-N-290 CLASS 1 (.000050 MIN. THK.) OVER COPPER PER AMS-2418 (.000010 MIN. THK.)  
PRESS RING \_\_\_\_\_ PASSIVATE PER AMS-2700, TYPE 2, CLASS 4.  
INSULATOR AND O'RING \_\_\_\_\_ N/A