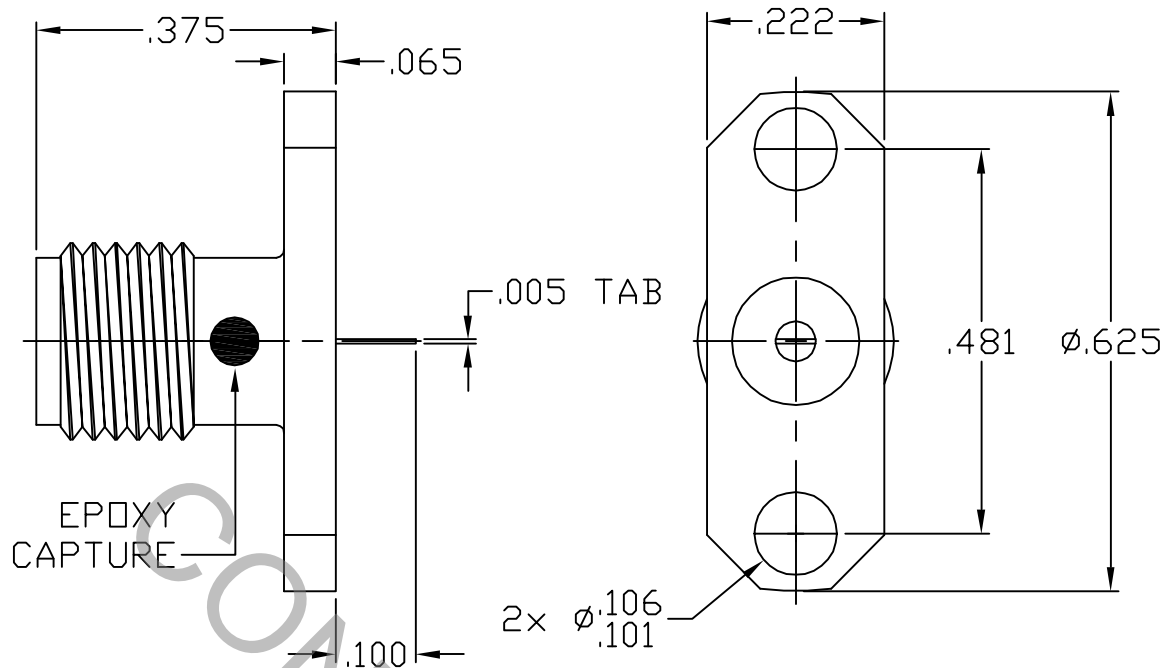


# SPECIFICATION CONTROL DRAWING




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

## 2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 26.5 GHz
VSWR (MAX) *	$1.06 + .006 \times \text{FGHz}$
INSERTION LOSS (dB MAX) *	$.035 \text{ dB} \times \sqrt{\text{FGHz}}$
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

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 HAVERHILL, MA 01835
AA	05-2296	12/7/05	DC	DECIMALS	FRACTIONAL	ANGULAR	
				.X ± .030 .XX ± .010 .XXX ± .005	± 1/64	X ° ± 1'0" X ° X' ± 15'	TITLE SMA, JACK 2 HOLE FLANGE .005 TAB CONTACT EPOXY CAPTURED
				DRAWN DC	DATE 12/7/05		
				APPROVED DC	DATE 12/7/05		
				CODE IDENT. 2J899	SHEET 1 OF 2	DWG. NO. 9952-0052-6400	

# 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. ) ( 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 \_\_\_\_\_ 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.)  
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