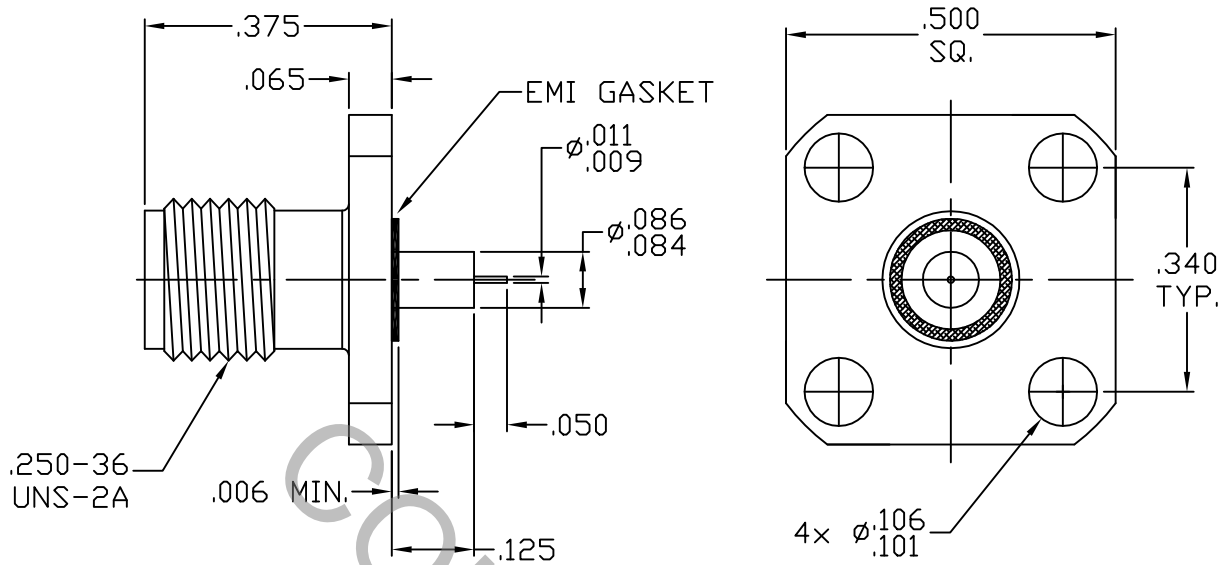


# SPECIFICATION CONTROL DRAWING




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

## 2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 26.5 GHz
VSWR (MAX.) *	_____	1.05 + .006 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)	_____	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
				DECIMALS	FRACTIONAL	ANGULAR	
-	321	4/87	DGG	.X ± .030 .XX ± .010 .XXX ± .005	±/64	X° ± 1 0' X° X' ± 15'	
A	618	12/88	DGG				
AA	05-1754	7/26/05	DC				
				DRAWN	CDM	DATE	4/87
				APPROVED	DGG	DATE	4/87
				CODE IDENT.			
				2J899		SHEET 1 OF 2	
						DWG. NO.	9954-0732-6210

TITLE  
SMA, JACK  
4 HOLE FLANGE  
CAPTIVE, EMI GASKET  
.010 DIA. PIN TERMINAL

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

CAPTIVATION—CENTER CONTACT  
MIN. AXIAL FORCE \_\_\_\_\_ 6.0 LBs.  
MIN. RADIAL TORQUE \_\_\_\_\_ 4.0 In. OZs.  
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  
● INTERFACE \_\_\_\_\_ 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 AMS-5640, TYPE 303, COND. A  
CONTACT \_\_\_\_\_ BERYLLIUM COPPER PER QQ-C-530, ALLOY 173, COND. H.T.  
INSULATOR \_\_\_\_\_ TEFLON PER MIL-P-19468, AND L-P-403, TYPE I  
EMI GASKET \_\_\_\_\_ SILVER PLATED ALUMINUM IN SILICONE RUBBER

## 6. FINISH

BODY \_\_\_\_\_ PASSIVATE PER AMS QQ-P-35, TYPE 2  
CONTACT \_\_\_\_\_ GOLD per ASTM-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.)  
EMI GASKET AND INSULATOR \_\_\_\_\_ N/A