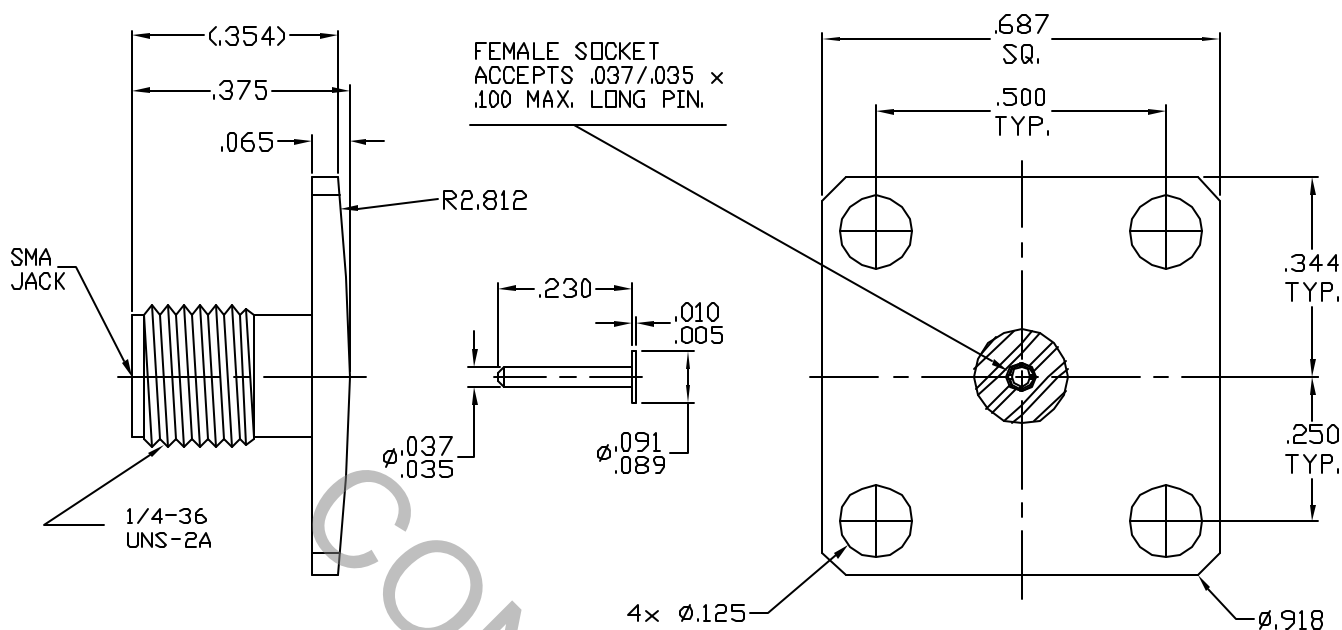


# SPECIFICATION CONTROL DRAWING



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

## 2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 20.0 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
AA	03-2473	11/20/03	DC	DECIMALS .X ±.030 .XX ±.010 .XXX ±.005	FRACTIONAL ±1/64	ANGULAR X° ± 1° X° X' ± 15'	
				DRAWN	DC	DATE 11/20/03	TITLE SMA, JACK 4 HOLE FLANGE FIELD REPLACEABLE
				APPROVED	DC	DATE 11/20/03	
				CODE IDENT.	SHEET 1 OF 2		DWG. NO. 9954-0381-6437
				2J899			

# 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) \_\_\_\_\_ 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.  
NAIL HEAD CONTACT FLOAT  
● WHEN MATED TO .136 BOARD \_\_\_\_\_ +/- .030

## 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 581, TYPE 303, COND. A  
CONTACTS \_\_\_\_\_ BERYLLIUM COPPER PER ASTM B196-90, COPPER ALLOY  
No. UNS-C17300, TEMPER TDD4.  
INSULATOR \_\_\_\_\_ TEFLON PER ASTM D 4894-91.  
RIBBON \_\_\_\_\_ GRADE A, 99.9% NICKEL RIBBON WIRE PER MIL-N-46025

## 6. FINISH

BODY \_\_\_\_\_ GOLD PER ATSM B 488, TYPE I, CODE C, CLASS 1.25 (.000050 MIN. THK.)  
OVER NICKEL PER QQ-N-290, CLASS I (.000150 MIN. THK.)  
OVER NICKEL (WOODS OR WATTS), (.000010 MIN. THK.)  
CONTACTS \_\_\_\_\_ GOLD PER ATSM 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-14650 (.000010 MIN. THK.)  
INSULATOR \_\_\_\_\_ N/A