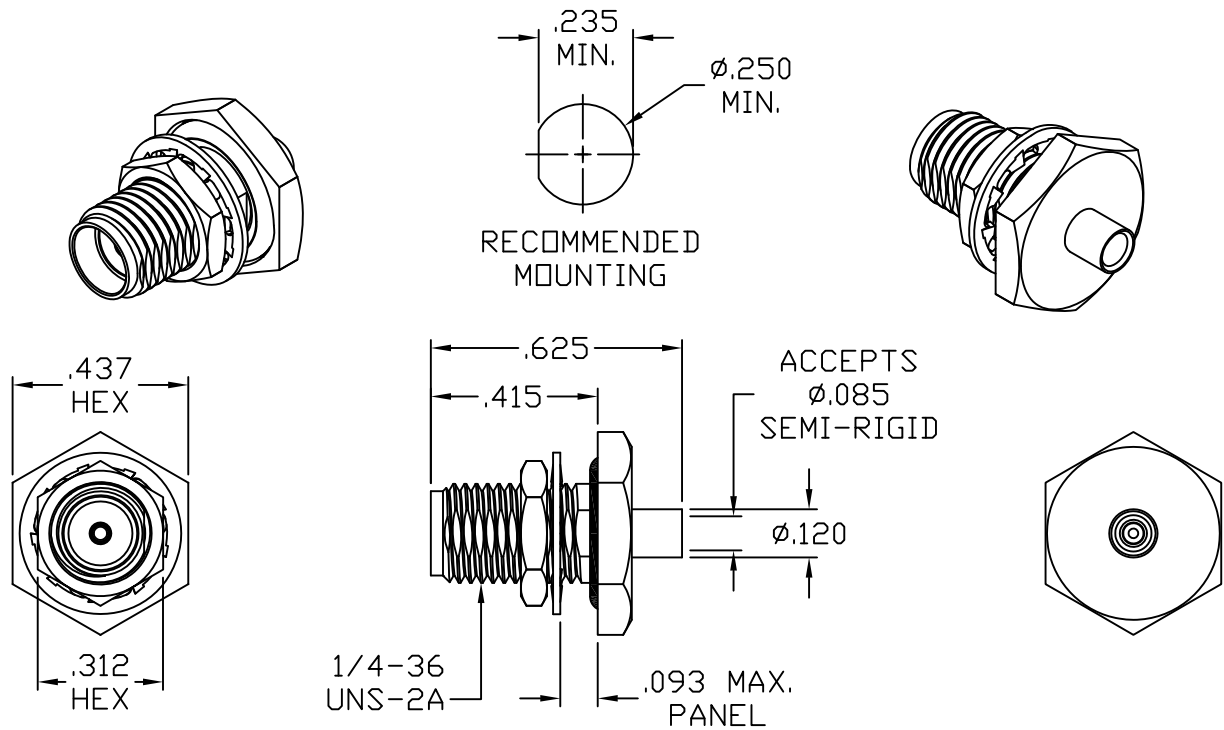


# SPECIFICATION CONTROL DRAWING



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.) *	_____	1.10 + .010 x FGHz
INSERTION LOSS (dB MAX.)	_____	.03 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)	_____	6.0
• OUTER CONTACT (MAX. MILLIOHMS)	_____	2.0

\*TERMINATED IN A 50 OHM LOAD

This Document contains proprietary and confidential information.

**RoHS**  
COMPLIANT

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 HAVERHILL, MA. 01835
AA	17-1170	2/2/17	DC	DECIMALS	FRACTIONAL	ANGULAR	
				.X ± .030 .XX ± .010 .XXX ± .005	±/64	X ° ± 1 0' X ° X' ± 15'	TITLE SMA, JACK BULKHEAD MOUNT TO .085 S.R. CABLE
				DRAWN RMS	DATE 2/2/17		
				APPROVED DC	DATE 2/2/17		
				CODE IDENT. 2J899	SHEET 1 OF 2	DWG. NO. 9910-8520-6484	

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

CAPTIVATION-CENTER CONTACT  
MAX.AXIAL FORCE \_\_\_\_\_ N/A  
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 INCH 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. ) ( 375 VRMS )

## 5. MATERIAL

BODY & HEX NUT \_\_\_\_\_ STAINLESS STEEL PER ASTM A 582, TYPE 303, COND. A  
CONTACT \_\_\_\_\_ BERYLLIUM COPPER PER ASTM B 196/B, 196M-03, COPPER ALLOY No. UNS 17300, TEMPER TD04.  
INSULATOR \_\_\_\_\_ TEFLON PER ASTM D 1710-02, TYPE 1, GRADE 1, CLASS B.  
LOCKWASHER \_\_\_\_\_ STAINLESS STEEL PER AMS-5640, TYPE 410, COND. A  
O-RING \_\_\_\_\_ FLOUROSILCONE PER MIL-R-25988. TYPE 1, CLASS 1 GRADE 60/3

## 6. FINISH

BODY \_\_\_\_\_ GOLD per ATSM 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.).  
HEX NUT \_\_\_\_\_ GOLD per ATSM B 488, TYPE I, CODE C, CLASS 0.70 (.000030 MIN. THK.) OVER NICKEL per SAE-AMS-QQ-N-290 CLASS 1 (.000050 MIN. THK.) OVER NICKEL (WOODS OR WATTS) (.000010 MIN. THK.).  
LOCKWASHER \_\_\_\_\_ GOLD per ATSM B 488, TYPE I, CODE C, CLASS 0.25 (.000010 MIN. THK.) OVER NICKEL per SAE-AMS-QQ-N-290 CLASS 1 (.00005-.000100 THK.) OVER NICKEL (WOODS OR WATTS) (.000010 MIN. THK.).  
CONTACT \_\_\_\_\_ GOLD per ATSM B 488, TYPE I, CODE C, CLASS 2.5 (.00010 MIN. THK.) OVER NICKEL per SAE-AMS-QQ-N-290 CLASS 1 (.000050 MIN. THK.) OVER COPPER PER AMS-2418 (.000040 MIN. THK.).  
INSULATOR AND O-RING \_\_\_\_\_ N/A