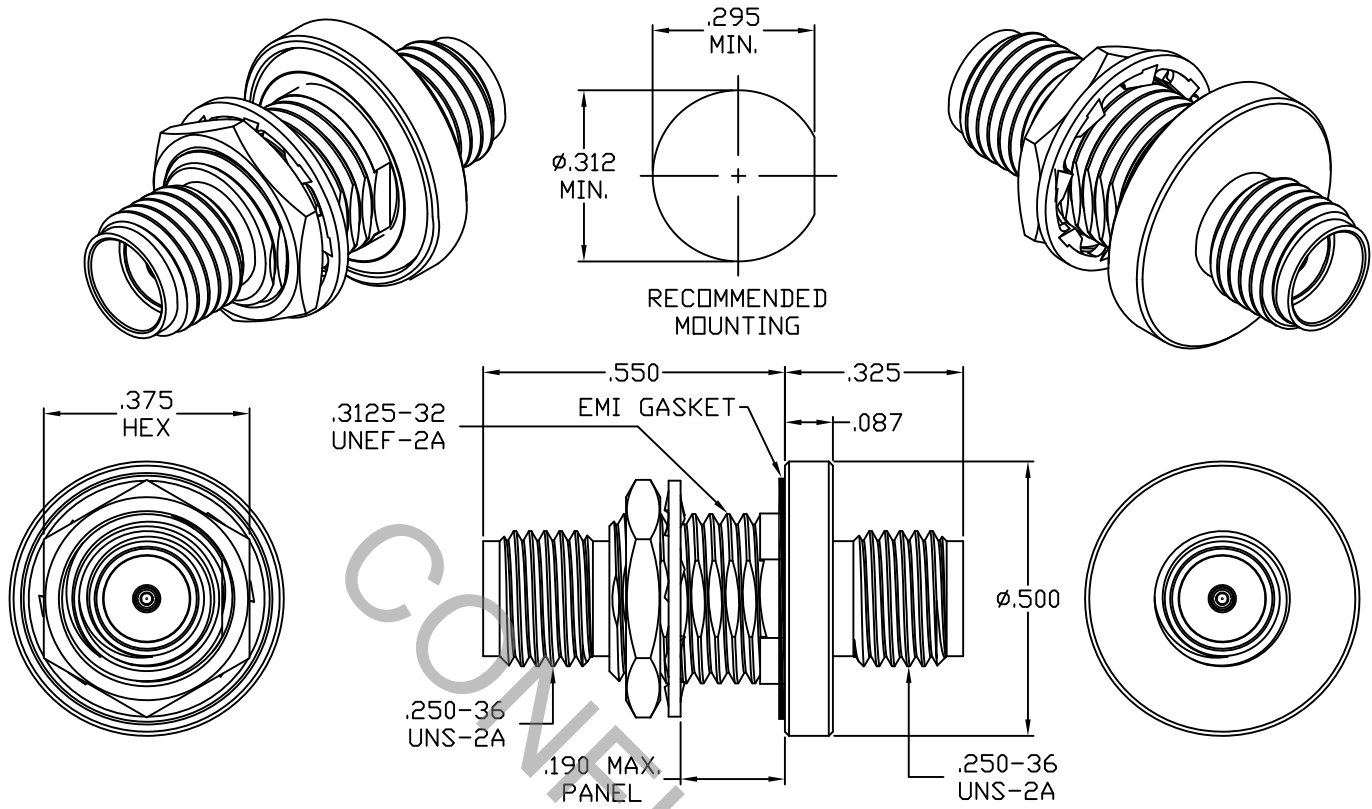


# SPECIFICATION CONTROL DRAWING



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

FREQUENCY RANGE GHz	DC TO 18.0 GHz
VSWR (MAX.) *	1.08 + .025 x FGHz
INSERTION LOSS (dB MAX.)	125 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	333
RF LEAKAGE (MIN. dB DOWN)	-100 dB - FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	-65°C TO + 165°C
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	1,000
INSULATION RESISTANCE (MIN. MEGOHMS)	5,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	12.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

\* TERMINATED IN A 50 OHM LOAD

**RoHS**  
COMPLIANT

This Document contains proprietary and confidential information.

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES				 HAVERHILL, MA 01835		
AA	14-1768	6/24/14	TS	DECIMALS .X ± .030 .XX ± .010 .XXX ± .005	FRACTIONAL ± 1/64	ANGULAR X ° ± 1° 0' X ° X' ± 15'	TITLE SMA JACK TO SMA JACK, HERMETIC BULKHEAD ADAPTER			
				DRAWN	TS	DATE				6/18/14
				APPROVED	DC	DATE				6/18/14
				CODE IDENT.	SHEET 1 OF 2		DWG. NO.	1120-9999-3801		
				2J899						

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

CAPTIVATION-CENTER CONTACT  
 MIN. AXIAL FORCE \_\_\_\_\_ 4.0 LBS.  
 MIN. RADIAL TORQUE \_\_\_\_\_ N/A  
 CENTER CONTACT AXIAL FORCES  
 ● INSERTION (MAX. OUNCES) \_\_\_\_\_ INTERFACE 48.0  
 ● WITHDRAWAL (MIN. OUNCES) \_\_\_\_\_ INTERFACE 2.0  
 CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. LBS.) \_\_\_\_\_ 2.0  
 CONNECTOR DURABILITY (MIN. CYCLES) \_\_\_\_\_ 500  
 RECOMMENDED MATING TORQUE \_\_\_\_\_ 7 - 10 IN. LBS.  
 RECOMMENDED MOUNTING TORQUE \_\_\_\_\_ 17 - 20 IN. LBS.

## 4. ENVIRONMENTAL

TEMPERATURE CYCLING \_\_\_\_\_ MIL-STD-202, METHOD 107, 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. ) ( 250 VRMS )  
 HERMETICITY \_\_\_\_\_ 1 x 10<sup>-8</sup> cc/SEC.

## 5. MATERIAL

BODY & LOCKNUT \_\_\_\_\_ STAINLESS STEEL PER ASTM-A-479, TYPE 316L  
 LOCKWASHER \_\_\_\_\_ 400 SERIES STAINLESS STEEL  
 CONTACTS \_\_\_\_\_ BERYLLIUM COPPER PER ASTM-B-196/B, 196M-03, COPPER ALLOY No. UNS-C17300, TEMPER TD04.  
 INSULATORS \_\_\_\_\_ TEFLON PER ASTM-D-1710-02, TYPE 1, GRADE 1, CLASS B.  
 GLASS \_\_\_\_\_ CORNING 7070  
 GLASS PIN \_\_\_\_\_ KOVAR PER MIL-I-23011  
 EMI GASKET \_\_\_\_\_ PER MIL-DTL-83528E, TYPE D, SILVER PLATED ALUMINUM IN FLUOROSILICONE

## 6. FINISH

CONNECTOR BODY, HEX NUT & LOCKWASHER \_\_\_\_\_ PASSIVATE PER AMS 2700, TYPE 6, CLASS 4.  
 GLASS PIN \_\_\_\_\_ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 0.70  
 (.000050 MIN. THK.) OVER NICKEL PER SAE-AMS-QQ-N-290  
 CLASS 1 (.000050 MIN. THK.) OVER NICKEL (WOODS OR WATTS)  
 (.000010 MIN. THK.)  
 CONTACTS \_\_\_\_\_ 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.)  
 INSULATORS & EMI GASKET \_\_\_\_\_ N/A