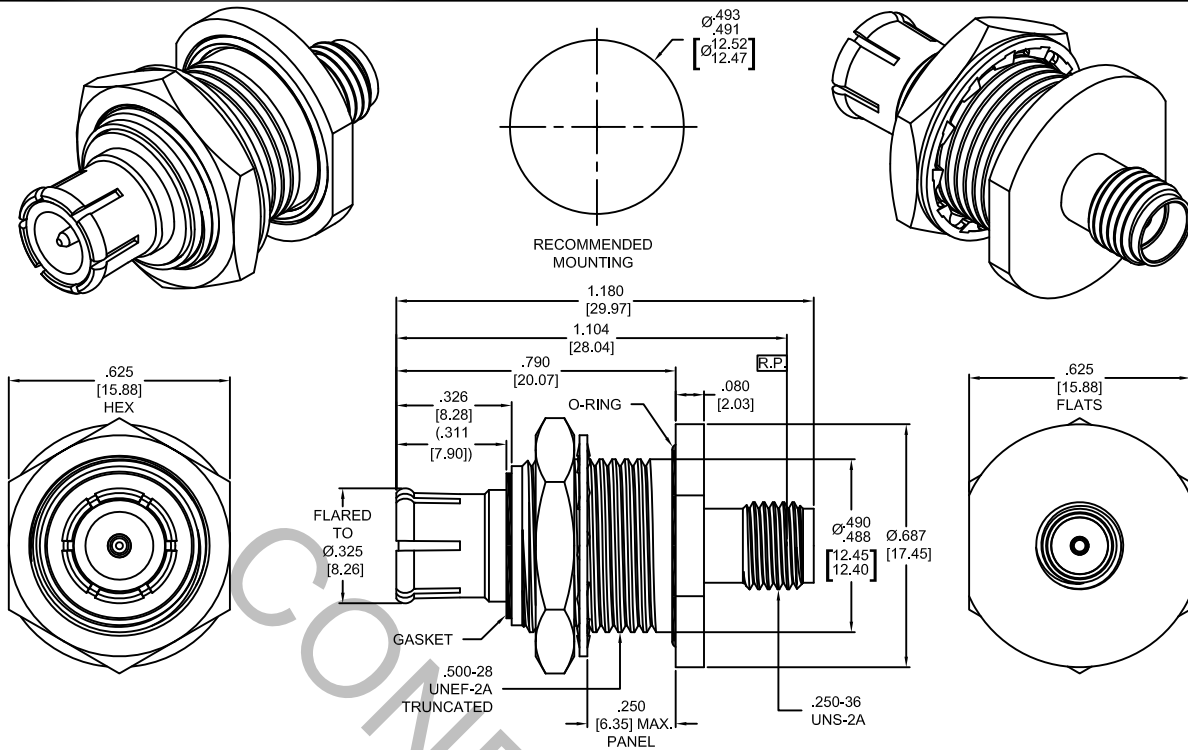


# SPECIFICATION CONTROL DRAWING




1. MATING INTERFACE DIMENSIONS PER MIL-STD-348 Fig. 313-1 (TNC, PLUG, MODIFIED) AND MIL-STD-348 Fig. 310-2 (SMA JACK).
2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 4.0 GHz.
VSWR (MAX) *	_____	1.06 + .012 x FGHz.
INSERTION LOSS (dB MAX) *	_____	.040 dB x $\sqrt{\text{FGHz}}$ .
NOMINAL IMPEDANCE (OHMS)	_____	50
VOLTAGE RATING (MAX. VRMS)	_____	417
RF LEAKAGE (MIN. dB DOWN)	_____	-100 dB - FGHz.
TEMPERATURE RATING (DEGREES CENTIGRADE)	_____	-65° c TO +165° c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	_____	1,250
INSULATION RESISTANCE (MIN. MEGOHMS)	_____	5,000
CONTACT RESISTANCE		
• CENTER CONTACT (MAX. MILLIOHMS)	_____	3.0
• 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	15-1328	3/5/15	TS	DECIMALS      FRACTIONAL      ANGULAR .X ± .030            ± 1/64            X° ± 1° 0' .XX ± .010    X° X' ± 15' .XXX ± .005 SURFACE ROUGHNESS 63 √ MIL-STD 10.	
AB	15-1365	3/11/15	DC		
AC	18-1617	6/6/18	DC		
				DRAWN TS DATE 3/5/15	TITLE TNC PLUG, BULKHEAD, TO SMA, JACK ADAPTER
				APPROVED DC DATE 3/5/15	
				CODE IDENT. 2J899	DWG. NO. 1110-8499-2702
				SHEET 1 OF 2	

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

### CAPTIVATION-CENTER CONTACT

- MIN. AXIAL FORCE \_\_\_\_\_ 4.5 LBS.
- MIN. RADIAL TORQUE \_\_\_\_\_ N/A

### CENTER CONTACT AXIAL FORCES

- INSERTION (MAX. OUNCES) \_\_\_\_\_ N/A
- WITHDRAWAL (MIN. OUNCES) \_\_\_\_\_ N/A

CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. LBS.) \_\_\_\_\_ 2.0

CONNECTOR DURABILITY (MIN. CYCLES) \_\_\_\_\_ 500

RECOMMENDED MATING TORQUE \_\_\_\_\_ 7-10 IN. LBS. SMA

RECOMMENDED MOUNTING TORQUE \_\_\_\_\_ 30-35 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. ) ( 313 VRMS )

## 5. MATERIAL

CONNECTOR BODY AND LOCKNUT \_\_\_\_\_ BRASS PER ASTM-B16, TEMPER H02, ALLOY C36000.

CENTER CONTACT \_\_\_\_\_ BERYLLIUM COPPER PER ASTM-B-196/B, 196M-03, COPPER ALLOY No. UNS C17300, TEMPER TD04.

INSULATOR \_\_\_\_\_ TEFLON PER ASTM-D-1710-02, TYPE 1, GRADE 1, CLASS B

LOCKWASHER \_\_\_\_\_ PHOSPHOR BRONZE

GASKET & O-RING \_\_\_\_\_ SILICONE RUBBER PER ZZ-R-765

## 6. FINISH

CONNECTOR BODY, LOCKNUT & LOCKWASHER \_\_\_\_\_ NICKEL PER SAE-AMS-QQ-N-290, CLASS 1  
(.000200 MIN. THK.) OVER COPPER PER AMS-2418  
(.000010 MIN. THK.)

CENTER CONTACT \_\_\_\_\_ GOLD PER ASTM-B-488, TYPE II, 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.)

INSULATOR, GASKET & O-RING \_\_\_\_\_ N/A