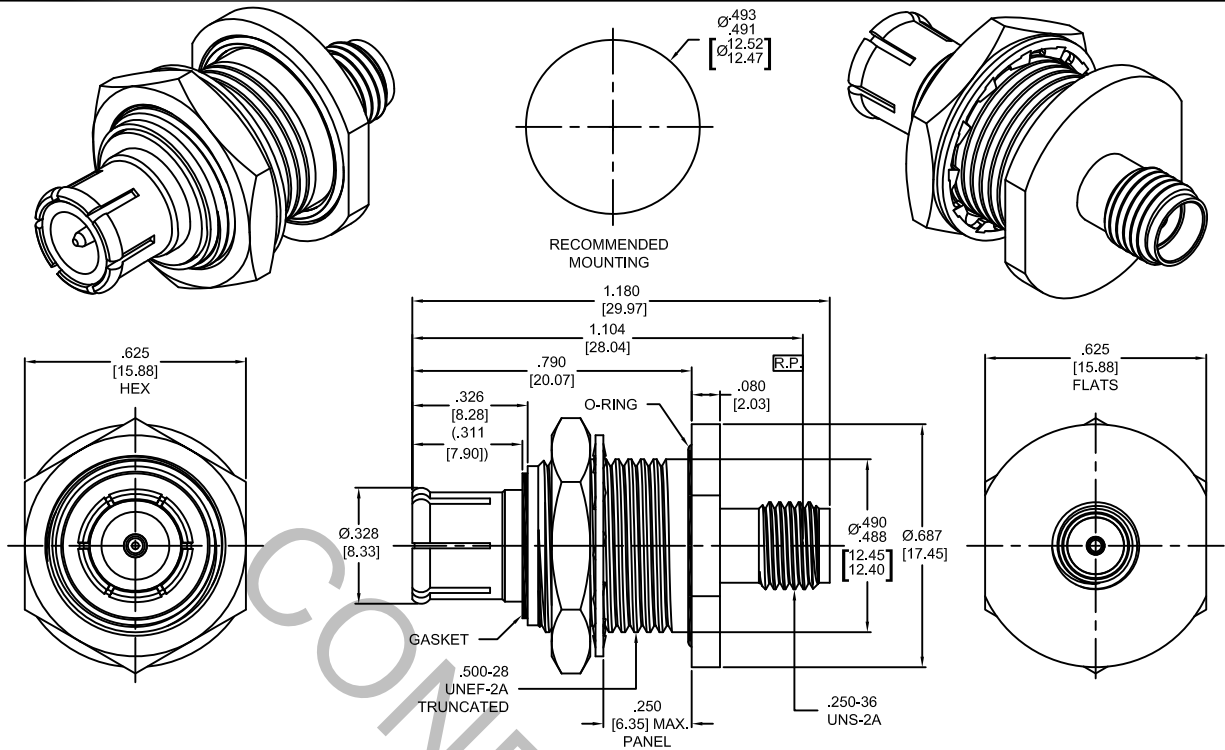


SPECIFICATION CONTROL DRAWING



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	15-1729	5/12/15	TS	DECIMALS .X ± .030 .XX ± .010 .XXX ± .005	FRACTIONAL ± 1/64	ANGULAR X° ± 1° 0' X° X' ± 15'	
AB	18-1617	6/5/18	TS	SURFACE ROUGHNESS 63 √ MIL-STD 10.			
				DRAWN TS DATE 5/12/15	TITLE TNC PLUG, BULKHEAD, TO SMA, JACK ADAPTER		
				APPROVED DC DATE 5/12/15			
				CODE IDENT. 2J899	SHEET 1 OF 2	DWG. NO. 1110-8499-2703	

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

TNC CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. LBS.) _____ TBD

CONNECTOR DURABILITY (MIN. CYCLES) _____ SMA, JACK (500) / TNC, PLUG (TBD)

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