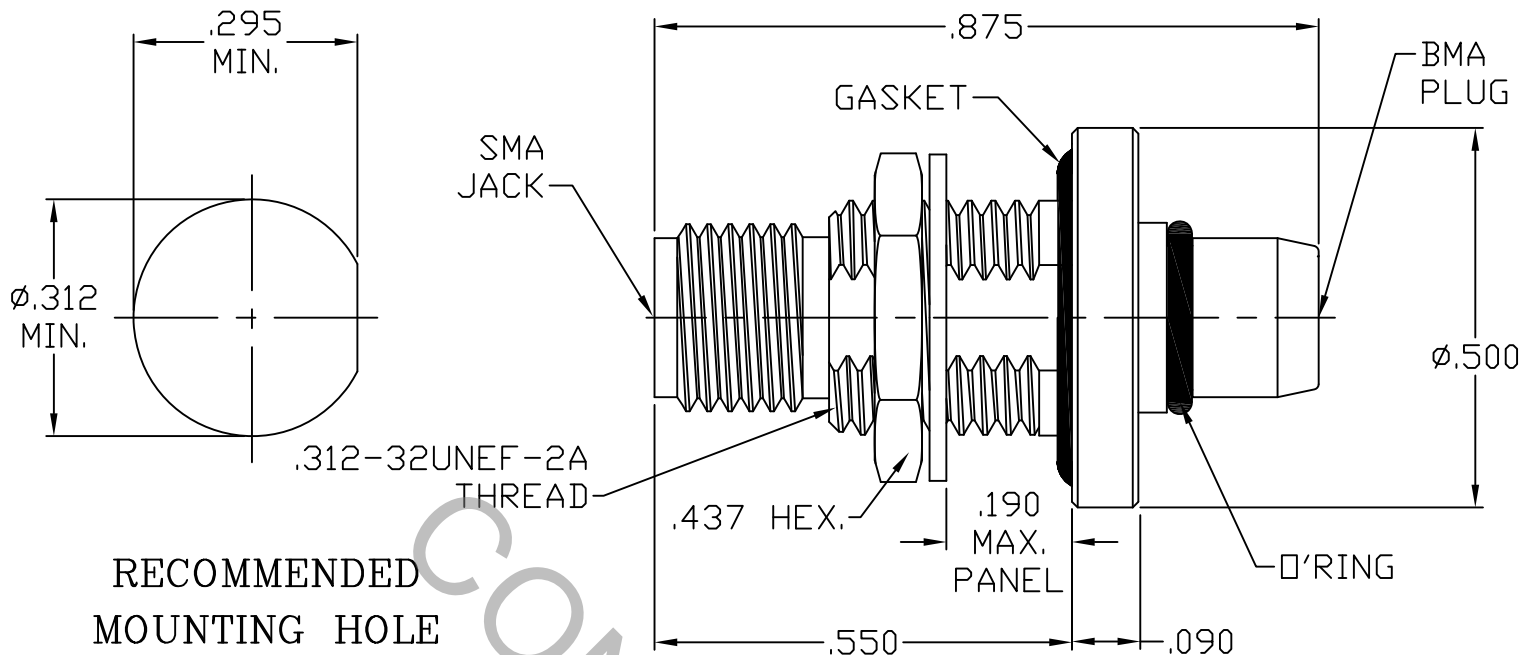


SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS PER MIL-STD-348A, Fig. 310.1 (SMA, PLUG).
ANS INTERFACE DIMENSIONS PER MIL-STD-348A, Fig. 321.1 (BMA, PLUG).

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 18.0 GHz.
VSWR (MAX.) *	1.05 + .010 x FGHz.
INSERTION LOSS (dB MAX.) *	.055 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 +150° 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

This Document contains proprietary and confidential information.

RoHS
COMPLIANT

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES	 HAVERHILL MA. 01835
AA	11-2066	12/5/11	TS	DECIMALS FRACTIONAL ANGULAR .X ± .030 1/64 X° ± 1.0' .XX ± .010 X° X' ± 15' .XXX ± .005	TITLE BMA PLUG TO SMA JACK, HERMETIC BULKHEAD ADAPTER
AB	13-1959	7/11/13	DC	SURFACE ROUGHNESS 63 $\sqrt{\text{MIL-STD 10}}$.	
				DRAWN TS DATE 12/5/11 APPROVED DC DATE 12/5/11	
				CODE IDENT. 2J899	DWG. NO. 1120-2899-6200
				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) _____ 48.0 (SMA, JACK)
- WITHDRAWAL (MIN. OUNCES) _____ 2.0 (SMA, JACK)

CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. LBS.) _____ 2.0

CONNECTOR DURABILITY (MIN. CYCLES) _____ 500

RECOMMENDED MATING TORQUE

- INTERFACE _____ 7-10 In.Lbs.
- PACKAGE _____ 17-20 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.) (250 VRMS)

HERMETICITY _____ 1×10^{-8} cc/sec

5. MATERIAL

CONNECTOR BODY, LOCKNUT _____ STAINLESS STEEL PER ASTM A 582, TYPE 303, COND. A.
AND LOCKWASHER

CENTER CONTACTS _____ BERYLLIUM COPPER PER ASTM B 196/B, 196M-03, COPPER
ALLOY No. UNS 17300, TEMPER TD04.

INSULATORS _____ TEFLON PER ASTM D 1710-02, TYPE 1, GRADE 1, CLASS B.

GLASS PIN _____ KOVAR PER MIL-I-23011

GLASS _____ CORNING 7070

GASKET _____ SILICONE RUBBER PER ZZ-R-765, CLASS IIB, GRADE 50 OR 60

O'RING _____ NITRILE (BUNAN) PER MIL-P-25732

6. FINISH

CONNECTOR BODY, LOCKNUT _____ PASSIVATE PER AMS 2700, TYPE 2, CLASS 4.
AND LOCKWASHER

CENTER CONTACT _____ 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.)

GLASS PIN _____ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 0.07
(.000030 MIN. THK.) OVER NICKEL PER SAE AMS QQ-N-290, CLASS 1
(.000050 MIN. THK.) OVER COPPER PER AMS 2418 (.000010 MIN. THK.)

INSULATOR, O'RING, GASKET AND RETAINING RING - N/A