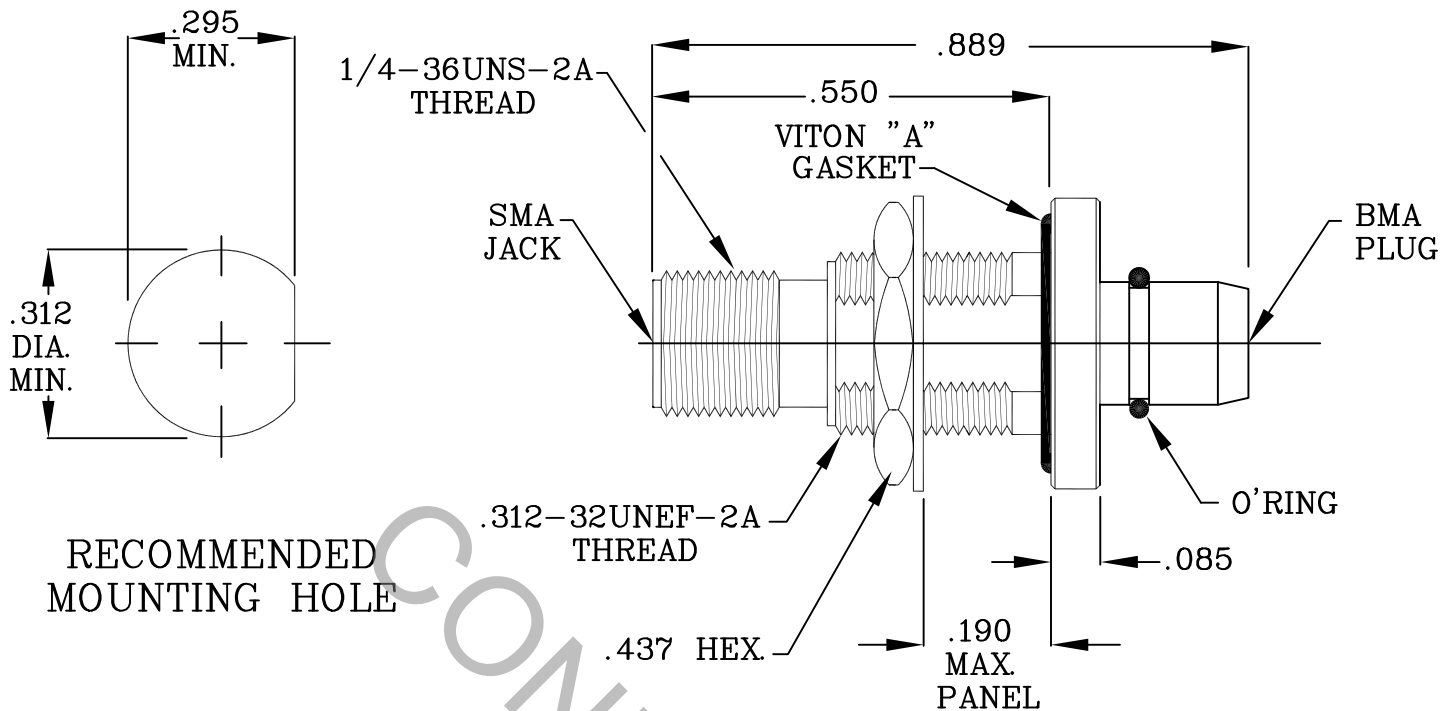


# SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS PER MIL-STD-348A Fig. 310.2 (SMA, JACK) AND MIL-STD-348A Fig. 321.1 (BMA, PLUG).

## 2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 20.0 GHz.
VSWR (MAX) *	_____	1.05 + .010 x FGHz.
INSERTION LOSS (dB MAX) *	_____	.045 dB x √FGHz.
NOMINAL IMPEDANCE (OHMS)	_____	50
VOLTAGE RATING (MAX. VRMS)	_____	500
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)	_____	10,000
CONTACT RESISTANCE		
• CENTER CONTACT (MAX. MILLIOHMS)	_____	12.0
• OUTER CONTACT (MAX. MILLIOHMS)	_____	2.0

\* TERMINATED IN A 50 OHM LOAD

**RoHS**  
COMPLIANT

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES	 HAVERHILL MA. 01835
AA	08-1422	4/16/08	TS	DECIMALS    FRACTIONAL    ANGULAR .X ± .030        1/64            X° ± 10' .XX ± .010                           X° X' ± 15' .XXX ± .005 SURFACE ROUGHNESS 63 √ MIL-STD 10.	
AB	08-2076	12/18/08	DC		<b>TITLE</b> BMA PLUG TO SMA JACK, HERMETIC BULKHEAD ADAPTER
AC	09-1414	5/13/09	DC	DRAWN    TS    DATE 4/16/08 APPROVED    DC    DATE 4/16/08	
				CODE IDENT. 2J899	DWG. NO. 1110-2899-6299
				SHEET 1 OF 2	

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

### CAPTIVATION-CENTER CONTACT

- MIN. AXIAL FORCE \_\_\_\_\_ 6.0 LBS.
- MIN. RADIAL TORQUE \_\_\_\_\_ N/A

### CENTER CONTACT AXIAL FORCES

- INSERTION (MAX. OUNCES) \_\_\_\_\_ 24.0
- WITHDRAWAL (MIN. OUNCES) \_\_\_\_\_ 2.0

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. ) ( 375 VRMS )

HERMETICITY \_\_\_\_\_  $1 \times 10^{-8}$  cc/sec

## 5. MATERIAL

CONNECTOR BODY, LOCKNUT & LOCKWASHER \_\_\_\_\_ STAINLESS STEEL PER ASTM A 582, TYPE 303, COND. A.

CENTER CONTACT AND RETAINING RING \_\_\_\_\_ 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 PIN \_\_\_\_\_ KOVAR PER MIL-I-23011

GLASS \_\_\_\_\_ CORNING 7070

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

GASKET \_\_\_\_\_ VITON "A".

## 6. FINISH

CONNECTOR BODY, LOCKNUT & LOCKWASHER \_\_\_\_\_ PASSIVATE PER AMS QQ-P-35, TYPE 2.

CENTER CONTACT \_\_\_\_\_ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 2.5  
(.00010 MIN.) OVER NICKEL PER QQ-N-290,  
(.000050 MIN.) OVER COPPER PER MIL-C-14550 (.000010 MIN.)

GLASS PIN \_\_\_\_\_ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 1.25  
(.000050 MIN.) OVER NICKEL PER QQ-N-290,  
(.000050 MIN.) OVER COPPER PER MIL-C-14550 (.000010 MIN.)

INSULATOR, O'RING, GASKET AND RETAINING RING \_\_\_\_\_ N/A