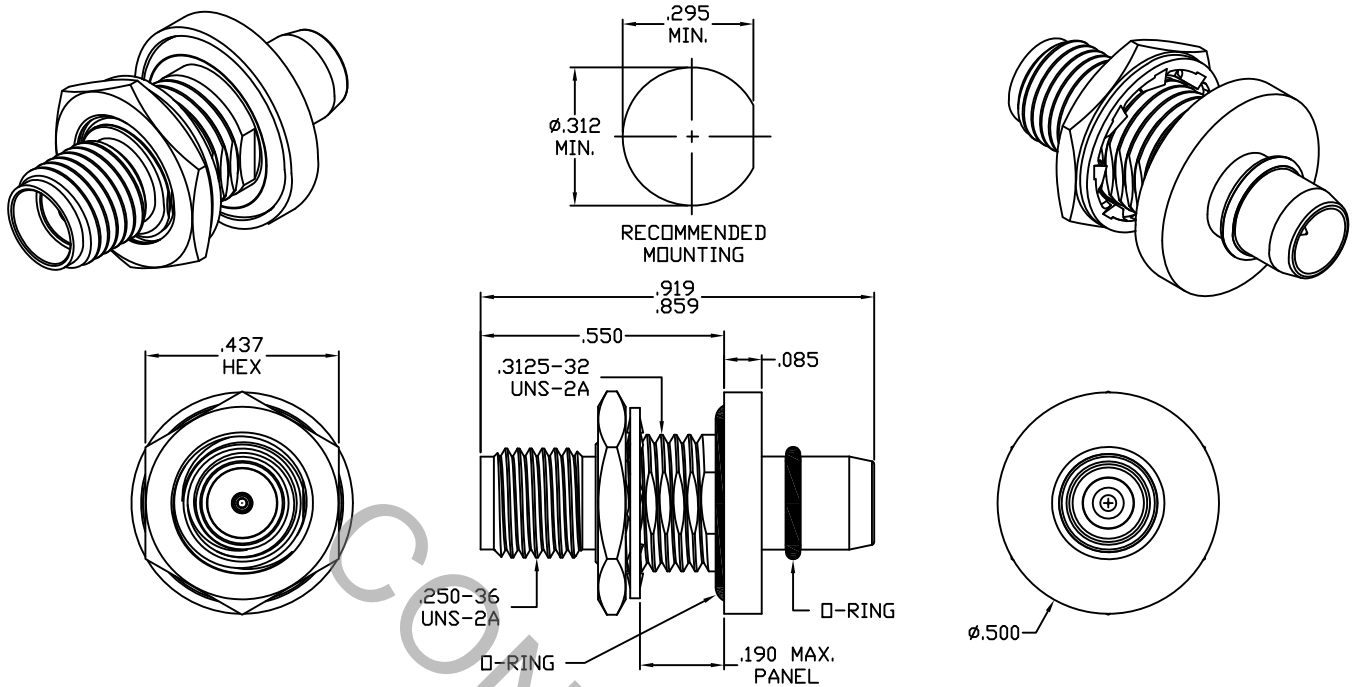


# SPECIFICATION CONTROL DRAWING



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 26.5 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)	_____	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

This Document contains proprietary and confidential information.

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 HAVERHILL MA. 01835
				DECIMALS	FRACTIONAL	ANGULAR	
AA	03-1622	5/8/03	DC	.X ± .030 .XX ± .010 .XXX ± .005	±1/64	X° ± 1° 0' X' X' ± 15'	
AB	08-2076	12/18/08	DC	SURFACE ROUGHNESS 63 √MIL-STD 10.			
BA	15-1205	2/10/15	DC	DRAWN GE	DATE 5/8/03	TITLE BMA PLUG TO SMA JACK, HERMETIC BULKHEAD ADAPTER	
				APPROVED DC	DATE 5/8/03		
				CODE IDENT.	SHEET 1 OF 2	DWG. NO.	1110-2899-6289
				2J899			

# 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 & HEX NUT \_\_\_\_\_ STAINLESS STEEL PER ASTM-A-582, TYPE 303, COND. A.  
LOCKWASHER \_\_\_\_\_ 400 SERIES STAINLESS STEEL  
CENTER CONTACTS \_\_\_\_\_ BERYLLIUM COPPER PER ASTM-B196/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 SAE-AMS-I-23011.  
GLASS \_\_\_\_\_ CORNING 7070.  
GASKETS & FLANGE O-RING \_\_\_\_\_ SILICONE RUBBER PER ZZ-R-765, CLASS I OR ASM 3304.  
BMA O-RING \_\_\_\_\_ NITRILE (BUNA N) PER MIL-P-25732.

## 6. FINISH

CONNECTOR BODY, HEX NUT & LOCKWASHER \_\_\_\_\_ PASSIVATE PER AMS-2700, TYPE 2, CLASS 4.  
CENTER CONTACTS \_\_\_\_\_ GOLD PER ASTM-B-488, TYPE 1, CODE C, CLASS 1.27  
(.000050 MIN.) OVER NICKEL PER SAE-AMS-QQ-N-290, CLASS 1  
(.000050 MIN.) OVER COPPER PER AMS-2418 (.000010 MIN.)  
GLASS PIN \_\_\_\_\_ GOLD PER ASTM-B-488, TYPE 1, CODE C, CLASS 1.27  
(.000050 MIN.) OVER NICKEL PER SAE-AMS-QQ-N-290, CLASS 1  
(.000150 MIN.) OVER NICKEL, WOODS OR WATTS (.000010 MIN.)  
INSULATORS, O-RINGS & GASKETS \_\_\_\_\_ N/A