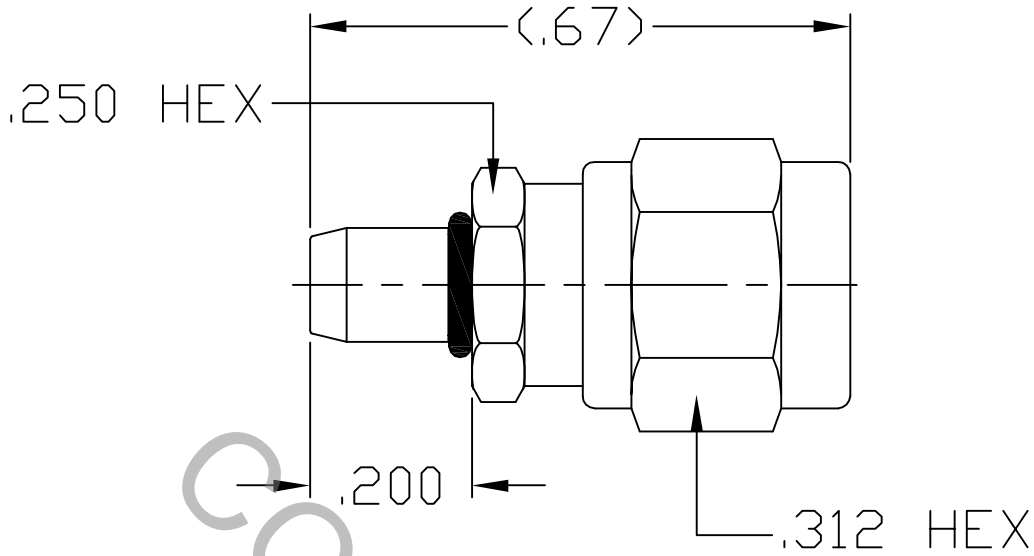


# SPECIFICATION CONTROL DRAWING




1. MATING INTERFACE DIMENSIONS PER MIL-STD-348A (Fig. 310.1) SMA PLUG AND DYNAWAVE MD-26, BMAM PLUG.

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 26.5 GHz.
VSWR (MAX.) *	1.06 + .007 x FGHz.
INSERTION LOSS (dB MAX.) *	.035 dB x $\sqrt{\text{FGHz}}$ .
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	250
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)	6.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

\* TERMINATED IN A 50 OHM LOAD

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 HAVERHILL MA 01835
AA	06-1696	5/30/06	DC	DECIMALS .X ± .030 .XX ± .010 .XXX ± .005	FRACTIONAL ± 1/64	ANGULAR X° ± 1'0" X° X' ± 15"	
				SURFACE ROUGHNESS 63 $\sqrt{\text{MIL-STD 10}}$ .			TITLE BMAM PLUG TO SMA PLUG ADAPTER
				DRAWN DC	DATE 5/30/06		
				APPROVED DC	DATE 5/30/06		
				CODE IDENT. 2J899	SHEET 1 OF 2	DWG. NO. 1100-2698-6251	

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

### CAPTIVATION-CENTER CONTACT

- MIN. AXIAL FORCE \_\_\_\_\_ 4.0 LBS.
- MIN. RADIAL TORQUE \_\_\_\_\_ N/A

### SMA ENGAGEMENT FORCES

- INSERTION (MAX OUNCES) \_\_\_\_\_ 48.0
- WITHDRAWAL (MIN. OUNCES) \_\_\_\_\_ 2.0

### BMAM

- INSERTION (MAX OUNCES) \_\_\_\_\_ 48.0
- WITHDRAWAL ( MIN. OUNCES) \_\_\_\_\_ 4.0

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

SMA MATING TORQUE \_\_\_\_\_ 7-10 IN-LB

## 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. ) ( 190 VRMS )

## 5. MATERIAL

CENTER CONTACT, RETAINING RING \_\_\_\_\_ BERYLLIUM COPPER PER ASTM B196-90, COPPER ALLOY No. UNS C17300, TEMPER TD04.

CONNECTOR BODY, COUPLING NUT, AND \_\_\_\_\_ STAINLESS STEEL PER ASTM A 582 , TYPE 303 , COND.A

INSULATOR \_\_\_\_\_ TEFLON PER D 1710

GASKET \_\_\_\_\_ SICONE RUBBER PER ZZ-R-765C, CLASS 1

O-RING \_\_\_\_\_ NITRILE (BUNA-N) PER MIL-P-25732

## 6. FINISH

BODY, COUPLING NUT, JAM NUT \_\_\_\_\_ PASSIVATE PER AMS QQ-P-35, TYPE 2  
LOCKWASHER

CENTER CONTACT \_\_\_\_\_ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 2.5  
(.000100 MIN. THK.) OVER NICKEL PER QQ-N-290  
(.000050 MIN. THK.) OVER COPPER PER MIL-C-14550  
(.000010 MIN. THK.)

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