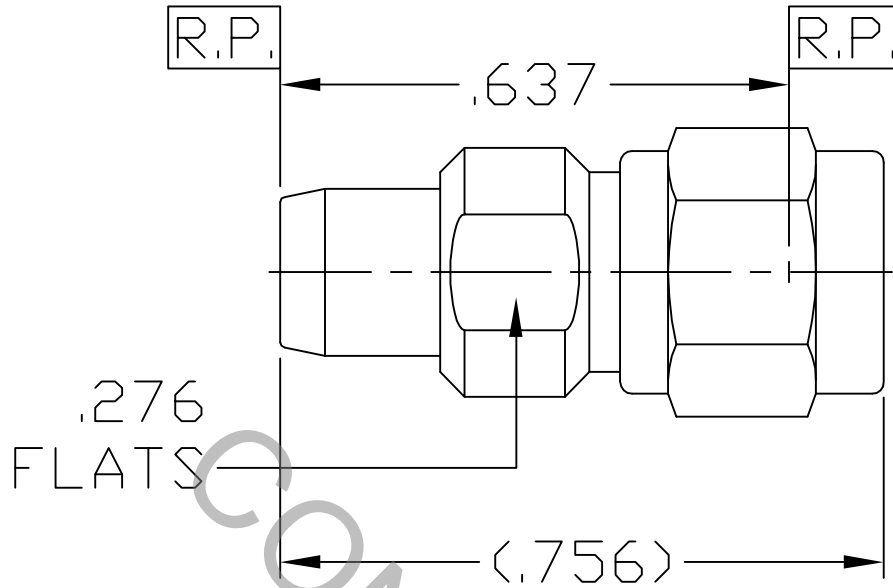


# SPECIFICATION CONTROL DRAWING




1. MATING INTERFACE DIMENSIONS Per MIL-STD-348  
 Figures 321.1 (BMA PLUG) & 310.1 (SMA PLUG).

2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 18.0 GHz
VSWR (MAX) *	_____	1.06 + .005 x FGHz
INSERTION LOSS (dB MAX) *	_____	.045 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	_____	50
VOLTAGE RATING (MAX. VRMS)	_____	400
RF LEAKAGE (MIN. dB DOWN)	_____	-85 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

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 HAVERHILL, MA 01835
AA	06-1692	5/26/06	DC	DECIMALS .X ± .030 .XX ± .010 .XXX ± .005	FRACTIONAL ± 1/64	ANGULAR X ° ± 1'0" X ° X' ± 15'	
				DRAWN DC	DATE 5/26/06	TITLE BMA PLUG TO SMA PLUG ADAPTER	
				APPROVED DC	DATE 5/26/06		
				CODE IDENT. 2J899	SHEET 1 OF 2	DWG. NO.	1100-2898-6224

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

CAPTIVATION-CENTER CONTACT  
 MAX AXIAL FORCE \_\_\_\_\_ 4.5 LBS.  
 MAX RADIAL TORQUE \_\_\_\_\_ N/A  
 CENTER CONTACT AXIAL FORCES  
 ● INSERTION (MAX OUNCES) \_\_\_\_\_ N/A  
 ● WITHDRAWAL (MIN. OUNCES) \_\_\_\_\_ N/A  
 CONNECTOR ENGAGEMENT (MAX LBS.) \_\_\_\_\_ N/A  
 CONNECTOR DURABILITY (MIN. CYCLES) \_\_\_\_\_ 500  
 RECOMMENDED MATING TORQUE \_\_\_\_\_ 7 - 10 IN. LBS., SMA

## 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. ) ( 300 VRMS )

## 5. MATERIAL

BODY & COUPLING NUT \_\_\_\_\_ STAINLESS STEEL PER AMS 5640, TYPE 303, COND. A  
 CONTACT & RETAINING RING \_\_\_\_\_ BERYLLIUM COPPER PER ASTM B196-90, COPPER ALLOY  
 No. UNS-C17300, TEMPER TD04.  
 INSULATOR \_\_\_\_\_ TEFLON PER ASTM D 4894-91.  
 GASKET \_\_\_\_\_ SILICONE RUBBER PER ZZ-R-765

## 6. FINISH

BODY & COUPLING NUT \_\_\_\_\_ PASSIVATE PER AMS QQ-P-35, TYPE 2  
 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, RETAINING RING & GASKET \_\_\_\_\_ N/A