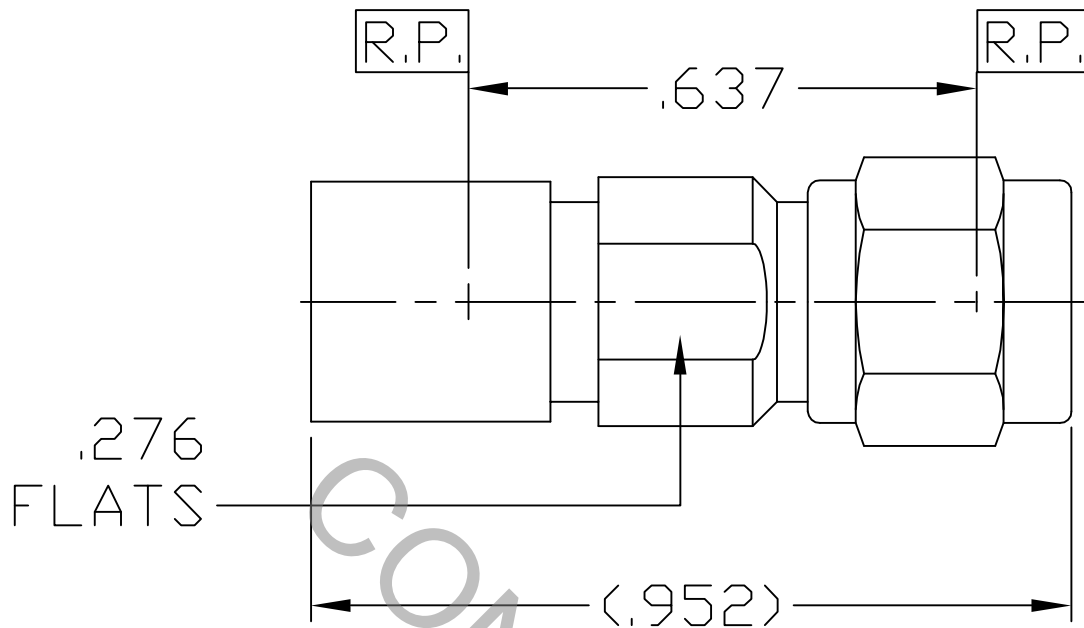


SPECIFICATION CONTROL DRAWING




1. MATING INTERFACE DIMENSIONS Per MIL-STD-348
 Figures 321.2 (BMA JACK) & 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 JACK TO SMA PLUG ADAPTER	
				APPROVED DC	DATE 5/26/06		
				CODE IDENT. 2J899	SHEET 1 OF 2	DWG. NO. 1100-6798-6252	

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) _____	32.0 BMA
● WITHDRAWAL (MIN. OUNCES) _____	1.0 BMA
CONNECTOR ENGAGEMENT (MAX LBS.) _____	3.0 BMA
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, SPRING FINGERS & 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
HOOD _____	BRASS PER ASTM-B16, TEMPER H02, ALLOY 36000

6. FINISH

BODY & COUPLING NUT _____	PASSIVATE PER AMS QQ-P-35, TYPE 2
CONTACT, HOOD & SPRING FINGERS _____	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