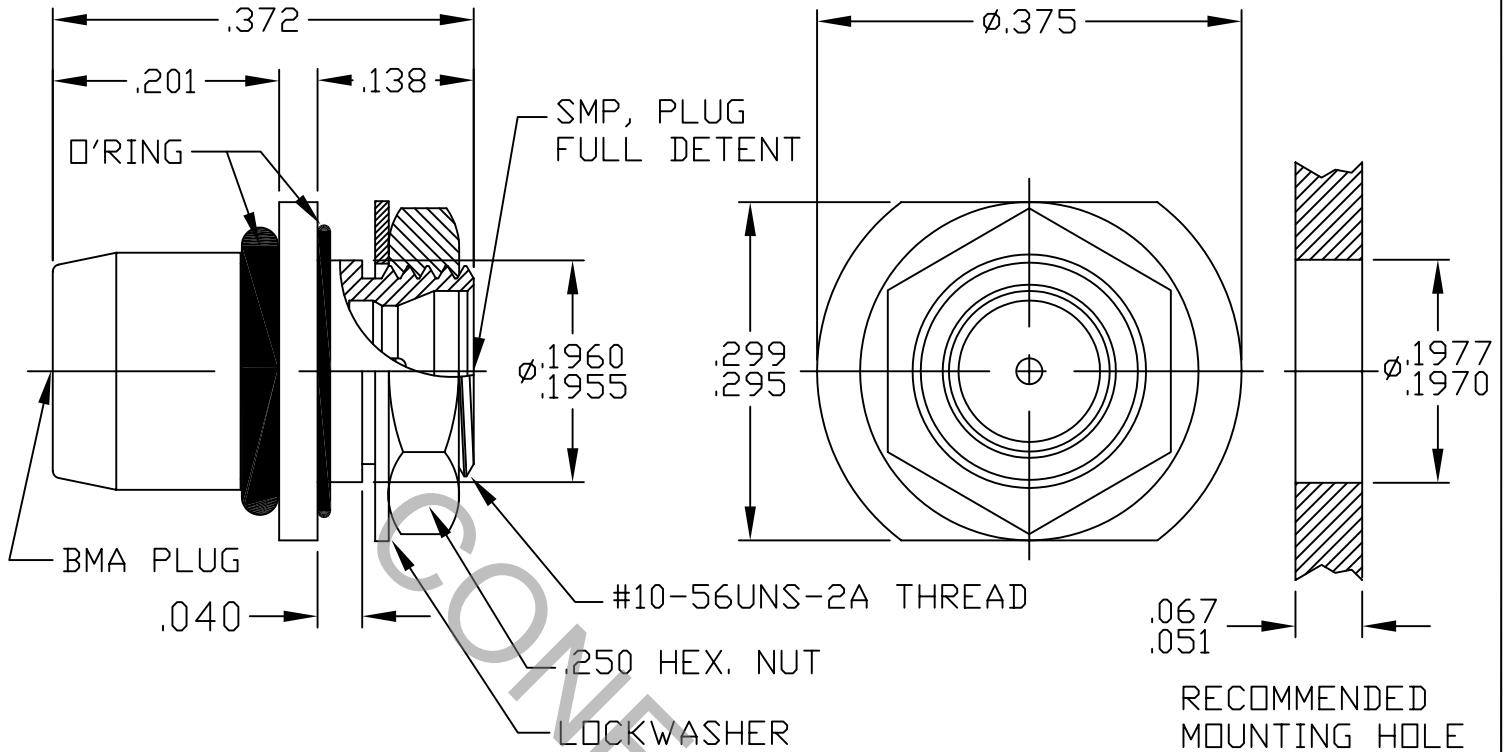


# SPECIFICATION CONTROL DRAWING




1. MATING INTERFACE DIMENSIONS per MIL-STD-348 Fig. 326.2 (SMP MALE FULL DETENT) AND Fig. 321.1 (BMA PLUG)

## 2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 22.0 GHz.
VSWR (MAX.) *	_____	1.06 + .006 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)	_____	-85 dB - FGHz.
TEMPERATURE RATING (DEGREES CENTIGRADE)	_____	-65 °c TO + 165 °c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	_____	750
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
				DECIMALS	FRACTIONAL	ANGULAR	
AA	06-1729	6/6/06	TS	.X ± .030 .XX ± .010 .XXX ± .005	±1/64	X ° ± 1'0" X ° X' ± 15'	TITLE BMA PLUG TO SMP MALE (FD) ADAPTER
AB	06-1749	6/16/06	TS				
				DRAWN TS	DATE 6/7/06		
				APPROVED DC	DATE 6/7/06		
				CODE IDENT. 2J899	SHEET 1 OF 2	DWG. NO. 1130-2128-6200	

# 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

● WITHDRAWAL (MIN. OUNCES) \_\_\_\_\_ 1.0

CONNECTOR ENGAGEMENT (MAX. LBS.) \_\_\_\_\_ 2.0 BMA, 2.0 SMP

CONNECTOR DISENGAGEMENT (MAX. LBS.) \_\_\_\_\_ N/A BMA, 0.5 SMP

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

RECOMMENDED MATING TORQUE \_\_\_\_\_ N/A

## 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

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

CONTACT \_\_\_\_\_ BERYLLIUM COPPER PER ASTM B 196, COPPER ALLOY  
UNS C 17800, TEMPER TD04

INSULATOR \_\_\_\_\_ TEFLON PER ASTM D 1710, TYPE 1, GRADE 1, CLASS B.

O-RING \_\_\_\_\_ NITRIL (BUNA N)

## 6. FINISH

BODY, LOCKNUT AND LOCKWASHER \_\_\_\_\_ PASSIVATE PER AMS 2700, 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 AND O-RING \_\_\_\_\_ N/A