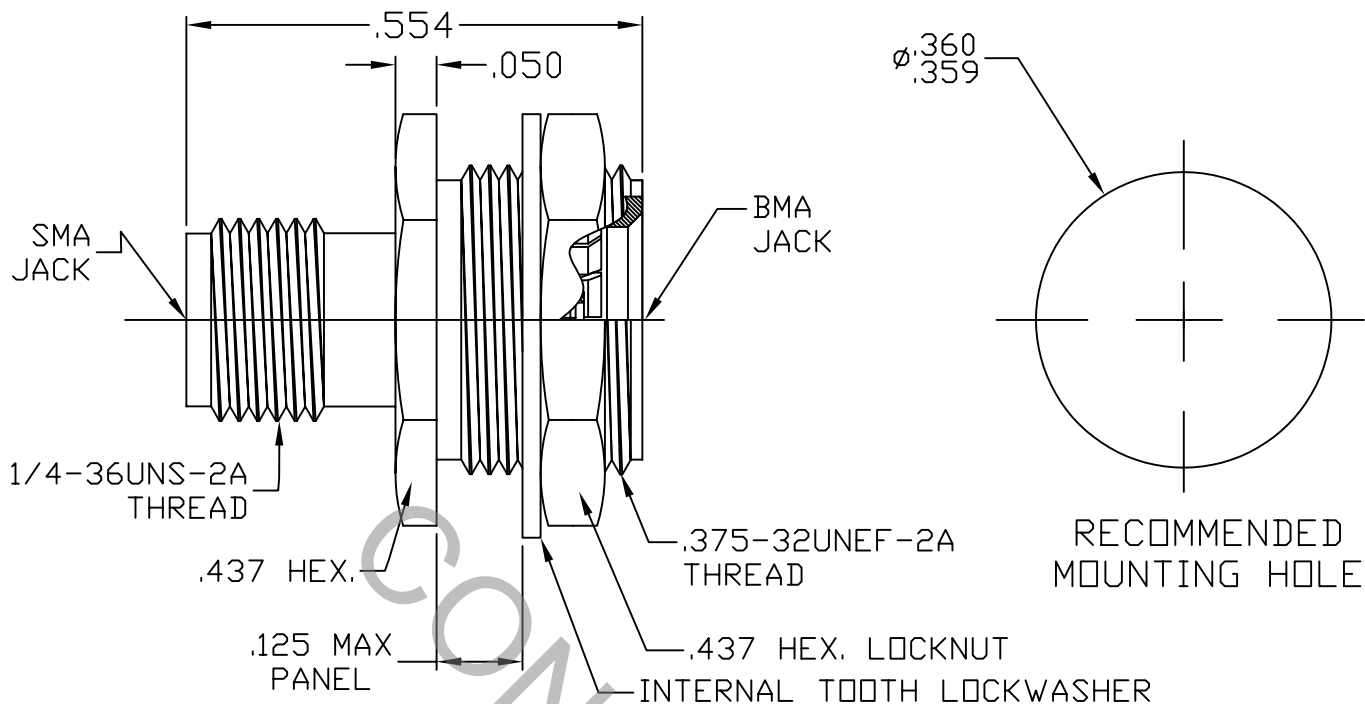


# SPECIFICATION CONTROL DRAWING




1. MATING INTERFACE DIMENSIONS MIL-STD-348 Fig. 310.2 (SMA JACK) AND Fig. 321.2 (BMA JACK).

## 2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 20.0 GHz
VSWR (MAX) *	_____	1.05 + .007 x FGHz
INSERTION LOSS (dB MAX) *	_____	.04 dB x √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 + 165°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	06-1551			DECIMALS	FRACTIONAL	ANGULAR	
				.X ± .030		X ° ± 1 0'	TITLE SMA, JACK TO BMA, JACK BULKHEAD ADAPTER
				.XX ± .010	±/64	X ° X' ± 15'	
				.XXX ± .005			
				DRAWN TS	DATE	4/26/06	DWG. NO. 1110-6799-6250
				APPROVED DC	DATE	4/26/06	
				CODE IDENT.	SHEET 1 OF 2		
				2J899			

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

### CAPTIVATION-CENTER CONTACT

MAX AXIAL FORCE \_\_\_\_\_ 6.0 LBS.

MAX RADIAL TORQUE \_\_\_\_\_ N/A

### CENTER CONTACT AXIAL FORCES

● INSERTION (MAX. OUNCES) \_\_\_\_\_ SMA AND BMA INTERFACE 32.0

● WITHDRAWAL (MIN. OUNCES) \_\_\_\_\_ SMA AND BMA INTERFACE 2.0

CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. IN. LBS.) — BMA 3.0 / 1.5

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

RECOMMENDED MATING TORQUE \_\_\_\_\_ SMA 7 - 10 IN. LBS.

## 4. ENVIRONMENTAL

TEMPERATURE CYCLING \_\_\_\_\_ MIL-STD-202, METHOD 102, COND. C ( -65° c TO + 200° 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, LOCKWASHER AND LOCKNUT \_\_\_\_\_ STAINLESS STEEL PER ASTM A581, TYPE 303, COND. A

CENTER CONTACT AND SPRING FINGERS \_\_\_\_\_ BERYLLIUM COPPER PER ASTM B196-90, COPPER ALLOY  
No. UNS-C17300, TEMPER TD04.

CENTER CONTACT HOOD \_\_\_\_\_ BRASS PER ASTM B16, TEMPER H02, ALLOY C36000.

INSULATOR \_\_\_\_\_ TEFLON PER ASTM D 1710.

## 6. FINISH

BODY, LOCKWASHER AND LOCKNUT \_\_\_\_\_ PASSIVATE PER AMS QQ-P-35, TYPE 2.

CENTER CONTACT ASSEMBLY AND SPRING FINGERS — GOLD PER ASTM B 488, TYPE II, 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 \_\_\_\_\_ N/A