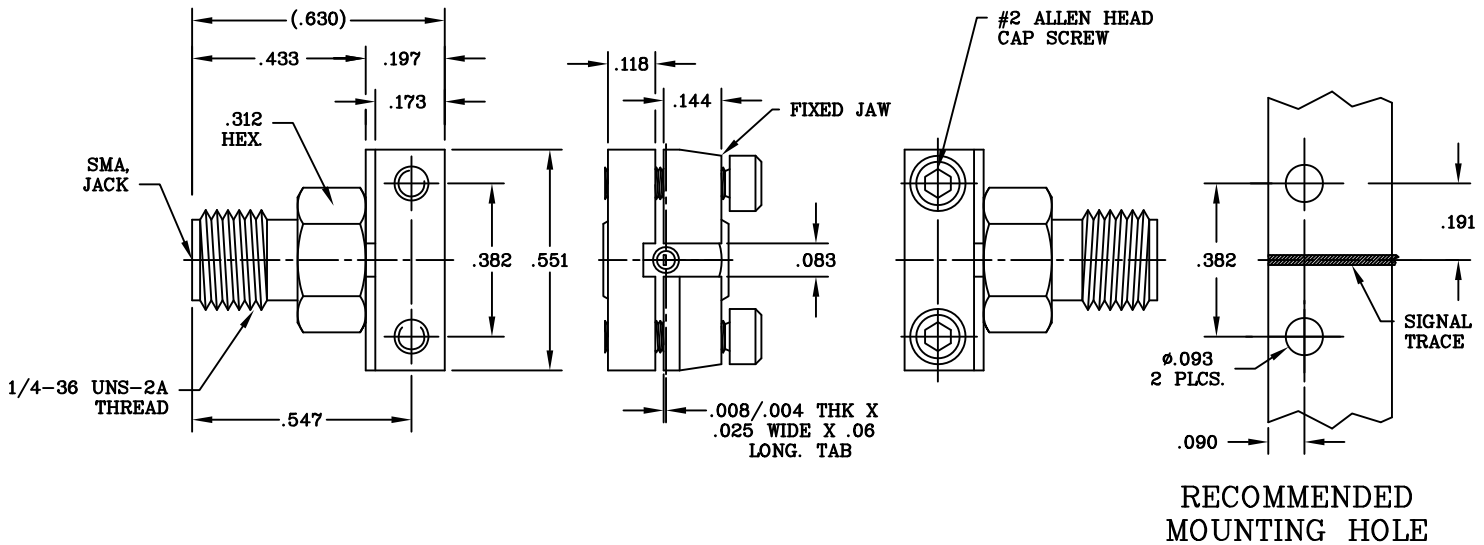


# SPECIFICATION CONTROL DRAWING



## 1. MATING INTERFACE DIMENSIONS FOR SMA JACK per MIL-STD-348 (Fig.310-2)

## 2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 18.0 GHz.
VSWR (MAX.) *	_____	1.10 + .010 x FGHz.
INSERTION LOSS (dB MAX.)	_____	.05 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 + 165 °c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	_____	750
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

**RoHS**  
COMPLIANT

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			HAVERHILL, MA. 01835
				DECIMALS	FRACTIONAL	ANGULAR	
AA	02-1118	12/18/02	DGG	.X ± .030		X ° ± f 0'	
AB	09-1857	11/10/09	DC	.XX ± .010	± 1/64	X ° X' ± 15"	
				DRAWN	GE	DATE 12/13/02	
				APPROVED	DGG	DATE 12/18/02	
				CODE IDENT.			
				2J899	SHEET 1 OF 2	DWG. NO. 9923-0551-6400	

**TITLE**  
SMA, JACK,  
EDGE MOUNT,  
TAB/CAPTIVATED CONTACT

# 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) \_\_\_\_\_ INTERFACE 48.0 OZ.

● WITHDRAWAL (MIN. OUNCES) \_\_\_\_\_ INTERFACE 2.0 OZ.

CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. IN. LBS.) \_\_\_\_\_ 2.0

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

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

## 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 (ALTTUDE) \_\_\_\_\_ MIL-STD-202, METHOD 105, COND. C ( 70,000 FT. ) ( 190 VRMS )

## 5. MATERIAL

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

CONTACT \_\_\_\_\_ BERYLLIUM COPPER PER ASTM B 196/B, 196M-03, COPPER  
ALLOY No. UNS C 17300, TEMPER TD04

INSULATOR \_\_\_\_\_ TEFLON PER ASTM D 1710-02, TYPE 1, GRADE 1, CLASS B.

## 6. FINISH

CONNECTOR BODY, PLATE \_\_\_\_\_ GOLD PER ASTM B 488, TYPE I, CODE C, CLASS 1.25  
AND SCREWS (.000050 MIN. THK.) OVER NICKEL PER QQ-N-290, CLASS 1  
(.000150 MIN. THK.) OVER NICKEL (WOODS OR WATTS),  
(.000010 MIN. THK.).

CONTACT \_\_\_\_\_ GOLD PER ASTM B 488, TYPE I, CODE C, CLASS 2.5  
(.00010 MIN. THK.) OVER NICKEL PER QQ-N-290  
(.000050 MIN. THK. OVER COPPER PER MIL-C-14550  
(.000010 MIN. THK.).

INSULATOR \_\_\_\_\_ N/A