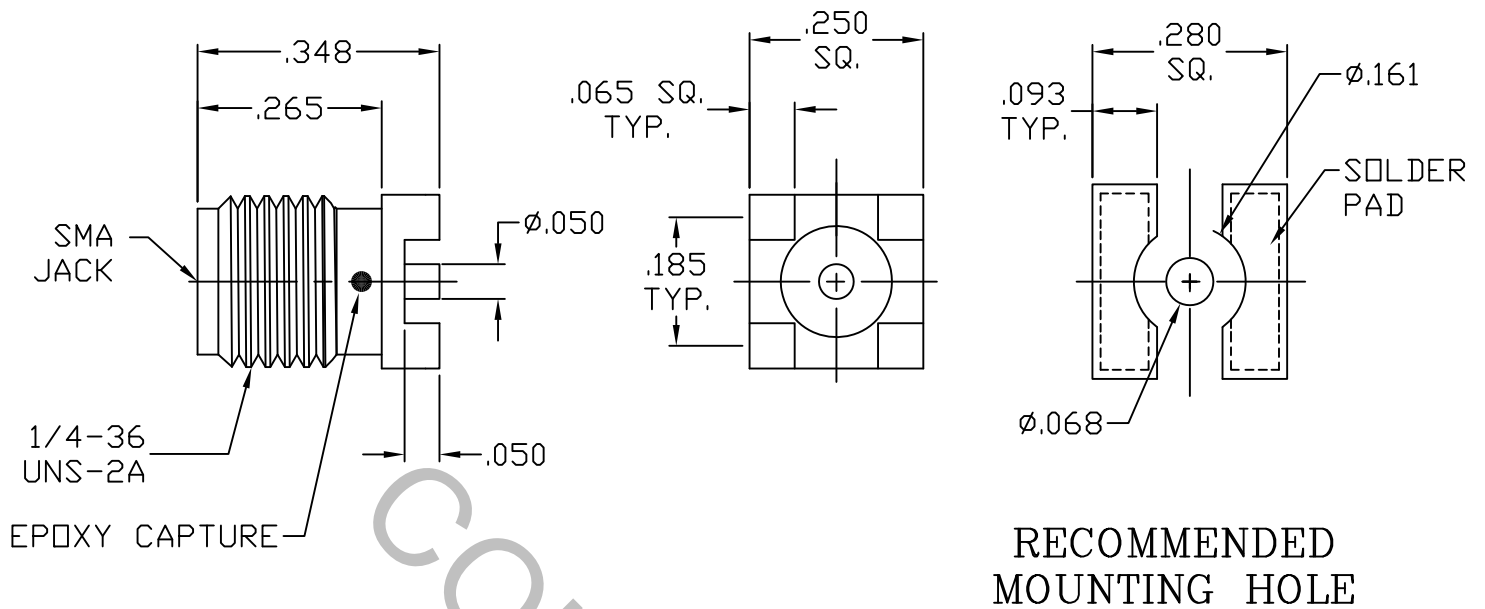


# SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS PER MIL-STD-348A (Fig. 310.2) SMA JACK

## 2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 12.4 GHz.
VSWR (MAX.) *	1.08 + .012 x FGHz
INSERTION LOSS (dB MAX.) *	.06 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	335
RF LEAKAGE (MIN. dB DOWN)	N/A
TEMPERATURE RATING (DEGREES CENTIGRADE)	-65° c TO +165° c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	500
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
				DECIMALS	FRACTIONAL	ANGULAR	
AA	17-1533	4/25/17	TS	.X ± .030 .XX ± .010 .XXX ± .005	1/64	X° ± 1° X' ± 15'	TITLE SMA JACK STRAIGHT 4 POST, SURFACE MOUNT STRAIGHT TERMINAL
				DRAWN TS	DATE 4/25/17		
				APPROVED DC	DATE 4/25/17		
				CODE IDENT. 2J899	SHEET 1 OF 2	DWG. NO. 9920-0032-2409	

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

### CAPTIVATION-CENTER CONTACT

- MIN. AXIAL FORCE \_\_\_\_\_ 6.0 LBS.
- MIN. RADIAL TORQUE \_\_\_\_\_ 4.0 IN./OZ.

### CONNECTOR ENGAGEMENT FORCES

- INSERTION (MAX. OUNCES) \_\_\_\_\_ 48.0
- WITHDRAWAL (MIN. OUNCES) \_\_\_\_\_ 2.0

CONNECTOR DURABILITY (MIN. MATING) \_\_\_\_\_ 250

## 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. ) ( 250 VRMS )

## 5. MATERIAL

CONNECTOR BODY \_\_\_\_\_ BRASS PER ASTM B36, TEMPER H02, ALLOY C36000

CENTER CONTACT \_\_\_\_\_ BERYLLIUM COPPER PER ASTM B196/B, 197M-03 COPPER ALLOY  
No. UNS C17300, TEMPER TD04.

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

## 6. FINISH

CONNECTOR BODY \_\_\_\_\_ GOLD PER ASTM B488, TYPE II, GRADE C, CLASS 0.30  
(.000030 MIN.) OVER NICKEL PER SAE AMS QQ-N-290, CLASS 1  
(.000050 MIN.) OVER COPPER PER AMS 2418 (.000010 MIN.)

CENTER CONTACT \_\_\_\_\_ GOLD PER ASTM B488, TYPE II, GRADE C, CLASS 1.25  
(.000050 MIN.) OVER NICKEL PER SAE AMS QQ-N-290, CLASS 1  
(.000050 MIN.) OVER COPPER PER AMS 2418 (.000010 MIN.)

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