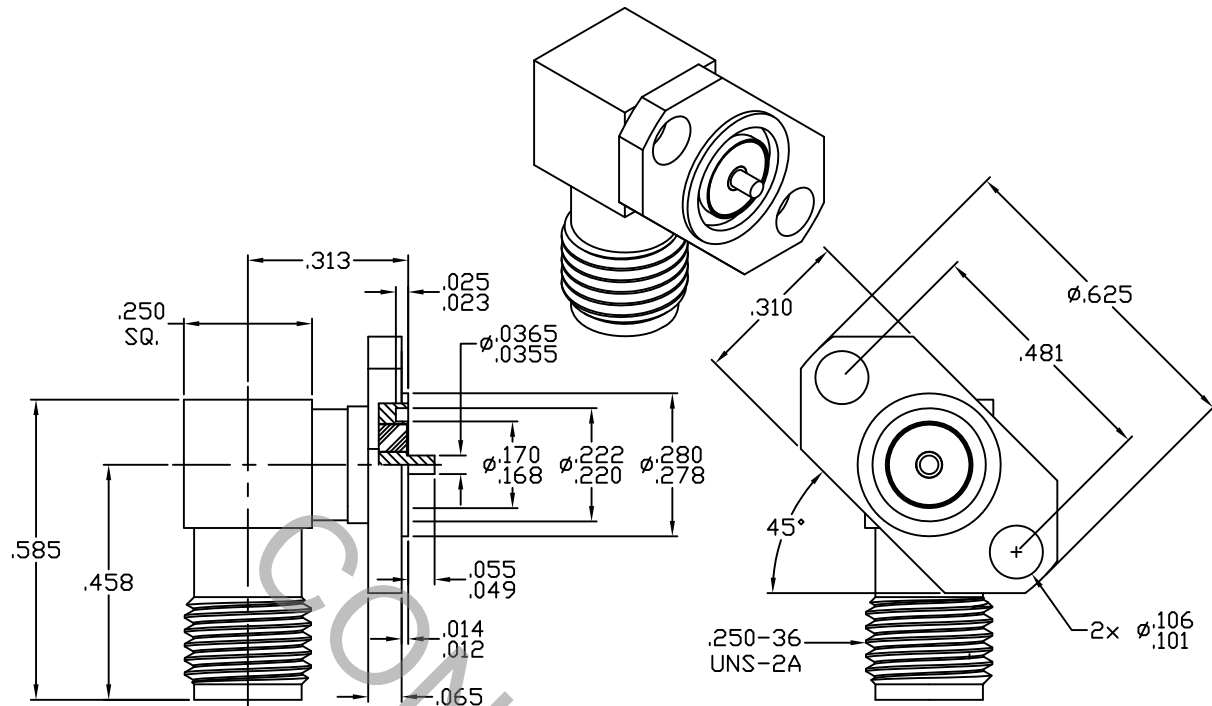


# SPECIFICATION CONTROL DRAWING



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

## 2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 18.0 GHz.
VSWR (MAX.) *	_____	1.07 + .010 x FGHz.
INSERTION LOSS (dB MAX.) *	_____	.04 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)	_____	6.0
• OUTER CONTACT (MAX. MILLIOHMS)	_____	2.0

\* TERMINATED IN A 50 OHM LOAD

**RoHS**  
COMPLIANT

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 GEORGETOWN MA 01833
AA	09-1226	3/16/09	DC	DECIMALS	FRACTIONAL	ANGULAR	
				.X ± .030 .XX ± .010 .XXX ± .005	± 1/64	X ° ± 1' 0" X ° X' ± 15"	TITLE SMA JACK, RIGHT ANGLE, 2 HOLE FLANGE STRAIGHT TERMINAL
				SURFACE ROUGHNESS 63 $\sqrt{\text{MIL-STD 10}}$ .			
				DRAWN DC	DATE	3/16/09	
				APPROVED DC	DATE	3/16/09	
				CODE IDENT.			DWG. NO. 9956-1830-6400
				2J899	SHEET 1 OF 2		

# 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) \_\_\_\_\_ 32.0 OZS.
- WITHDRAWAL (MIN. OUNCES) \_\_\_\_\_ 2.0 OZS.

CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. 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 (ALTITUDE) \_\_\_\_\_ MIL-STD-202, METHOD 105, COND. C ( 70,000 FT. ) ( 190 VRMS )

## 5. MATERIAL

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

CENTER CONTACT \_\_\_\_\_ BERYLLIUM COPPER PER ASTM B196/B, 196M-03, COPPER ALLOY No. UNS C17300, TEMPER TD04.

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

## 6. FINISH

CONNECTOR BODY \_\_\_\_\_ GOLD PER ASTM-B-488, TYPE 1, CODE C, CLASS 0.70  
(.000030 MIN.) OVER NICKEL PER QQ-N-290,  
(.000050 MIN.) OVER COPPER PER MIL-C-14550 (.000010 MIN.)

CENTER CONTACT \_\_\_\_\_ GOLD PER ASTM-B-488, TYPE II, CODE C, CLASS 2.5  
(.000100 MIN.) OVER NICKEL PER QQ-N-290,  
(.000050 MIN.) OVER COPPER PER MIL-C-14550 (.000010 MIN.)

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