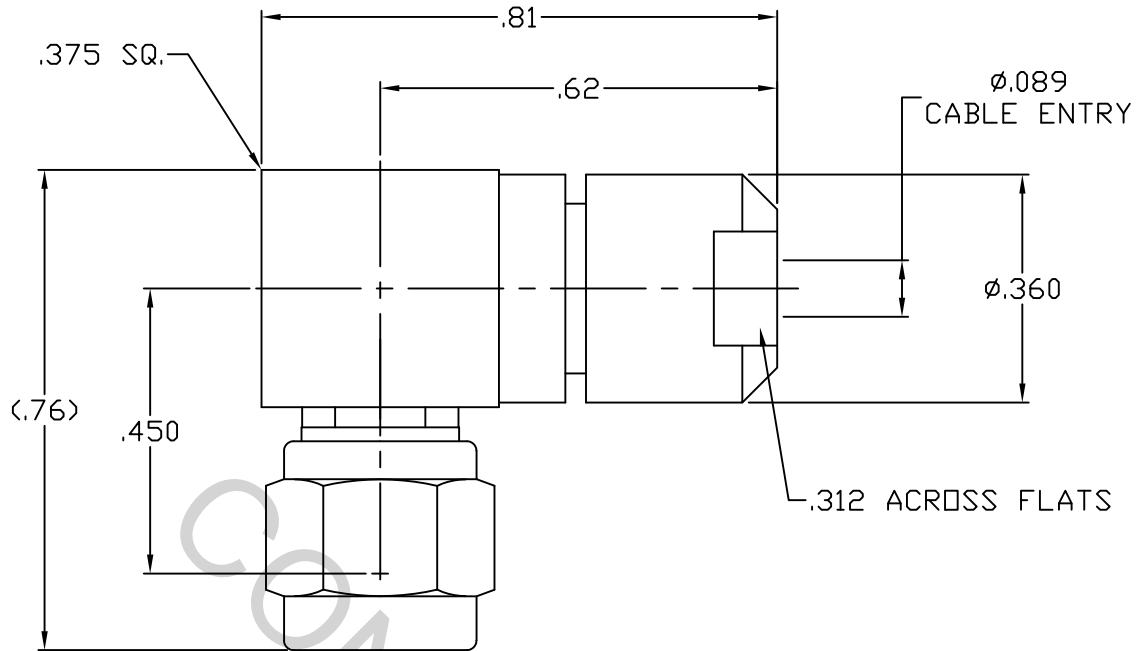


# SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS Per MIL-STD-348 Fig. 310.3 (SMA PLUG).


## 2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 18.0 GHz
VSWR (MAX) *	1.05 + .004 x FGHz
INSERTION LOSS (dB MAX) *	.05 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	325
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)	5,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	3.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

\* TERMINATED IN A 50 OHM LOAD

**RoHS**  
COMPLIANT

This Document contains proprietary and confidential information.

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 Haverhill, MA 01835
				DECIMALS	FRACTIONAL	ANGULAR	
AA	07-1466	5/1/07	DC	.X ± .030		X ° ± 1° 0'	TITLE    SMA RIGHT ANGLE PLUG SOLDER CLAMP TO ø.085 SEMI-RIGID CABLE
AB	18-1478	5/1/18	DC	.XX ± .010	± 1/64	X ° X' ± 15'	
				DRAWN TS	DATE	5/1/07	DWG. NO.    9801-8540-6200
				APPROVED DC	DATE	5/1/07	
				CODE IDENT.	SHEET 1 OF 2		
				2J899			

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

### CAPTIVATION-CENTER CONTACT

MAX AXIAL FORCE \_\_\_\_\_ 4.0 LBS.

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

### CENTER CONTACT AXIAL FORCES

● INSERTION (MAX OUNCES) \_\_\_\_\_ N/A

● WITHDRAWAL (MIN. OUNCES) \_\_\_\_\_ N/A

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 (ALTITUDE) \_\_\_\_\_ MIL-STD-202, METHOD 105, COND. C ( 70,000 FT. ) ( 250 VRMS )

## 5. MATERIAL

BODY, SLEEVE, COUPLING NUT AND REAR NUT \_\_\_\_\_ STAINLESS STEEL PER ASTM 582, TYPE 303, COND. A

CENTER CONTACT AND RETAINING RING \_\_\_\_\_ BERYLLIUM COPPER PER ASTM B196/B, 196M-03, COPPER ALLOY No. UNS 17300, TEMPER TD04.

GASKET \_\_\_\_\_ SILICONE RUBBER PER ZZ-R-765

INSULATOR \_\_\_\_\_ TEFLON PER ASTM D1710-02, TYPE 1, GRADE 1, CLASS B.

## 6. FINISH

BODY, COUPLING NUT AND REAR NUT \_\_\_\_\_ PASSIVATE PER AMS-2700, TYPE 2, CLASS 4.

CENTER CONTACT \_\_\_\_\_ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 1.27  
(.000050 MIN. THK.) OVER NICKEL per QQ-N-290  
(.000050 MIN. THK.) OVER COPPER per AMS-2418  
(.000010 MIN. THK.)

SLEEVE \_\_\_\_\_ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 1.27  
(.000050 MIN. THK.) OVER NICKEL per QQ-N-290  
(.000150 MIN. THK.) OVER NICKEL (WOODS OR WATTS)  
(.000010 MIN. THK.)

RETAINING RING AND GASKET \_\_\_\_\_ N/A