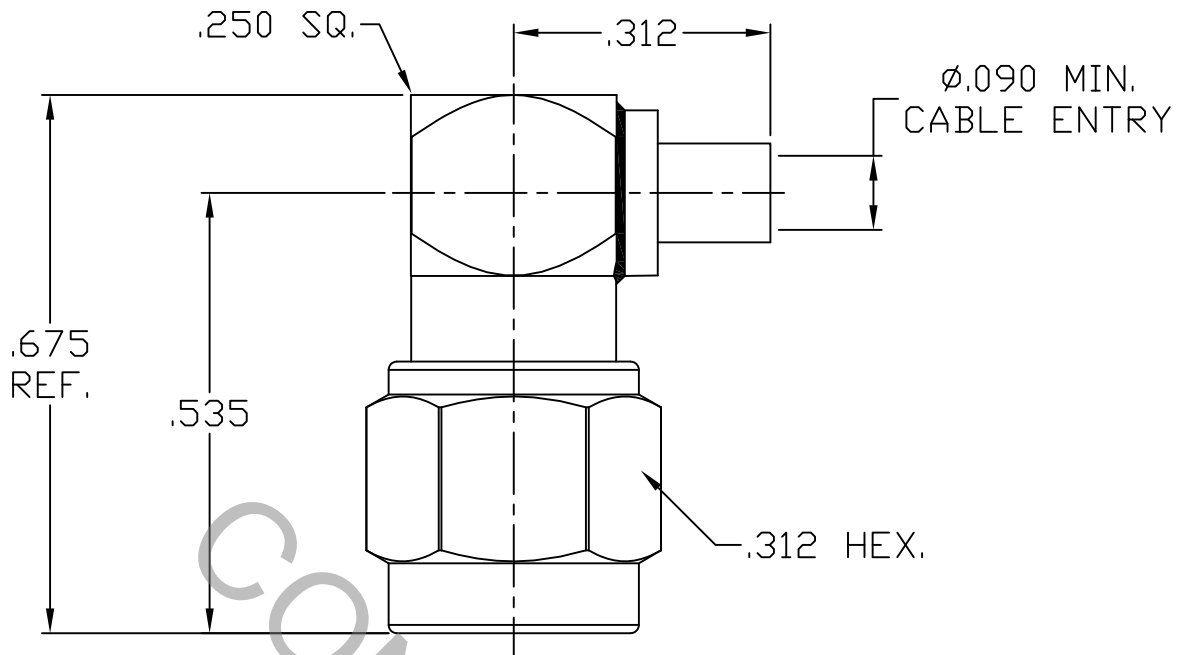


# SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS Per MIL-STD-348 Fig. 310.1 (SMA PLUG).


## 2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 12.4 GHz
VSWR (MAX.) *	1.04 + .008 x FGHz
INSERTION LOSS (dB MAX.) *	.045 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

**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	07-1299	3/20/07	TS	.X ± .030		X ° ± 1° 0'	
AB	13-1943	7/8/13	TS	.XX ± .010	± 1/64	X ° X' ± 15'	
AC	13-2006	7/24/13	TS	.XXX ± .005			
				DRAWN TS	DATE 3/20/07	TITLE SMA PLUG RIGHT ANGLE DIRECT SOLDER TO Ø.085 SEMI-RIGID CABLE	
				APPROVED DC	DATE 3/20/07		
				CODE IDENT.	SHEET 1 OF 2	DWG. NO.	
				2J899		9801-8521-6412	

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

## 5. MATERIAL

BODY, COUPLING NUT & SOLDER CAP \_\_\_\_\_ STAINLESS STEEL PER ASTM-A-581, TYPE 303, COND. A  
RETAINING RING \_\_\_\_\_ BERYLLIUM COPPER PER ASTM B196/B, 196M-03. COPPER ALLOY No. UNS-C17300, TEMPER TD04.  
CONTACT \_\_\_\_\_ BRASS PER ASTM-B16, TEMPER H02, ALLOY C36000.  
INSULATOR \_\_\_\_\_ TEFLON PER ASTM-D1710-02, TYPE 1, GRADE 1, CLASS B.  
GASKET \_\_\_\_\_ SILICONE RUBBER PER ZZ-R-765.

## 6. FINISH

BODY, COUPLING NUT & SOLDER CAP \_\_\_\_\_ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 0.70 (.000030 MIN. THK.) OVER NICKEL PER SAE-AMS-QQ-N-290 CLASS 1 (.000050 MIN. THK.) OVER COPPER PER AMS-2418 (.000010 MIN. THK.)  
CONTACT \_\_\_\_\_ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 0.70 (.000030 MIN. THK.) OVER NICKEL PER SAE-AMS-QQ-N-290 CLASS 1 (.000050 MIN. THK.) OVER COPPER PER AMS-2418 (.000010 MIN. THK.)  
INSULATORS, RETAINING RING & GASKET \_\_\_\_\_ N/A