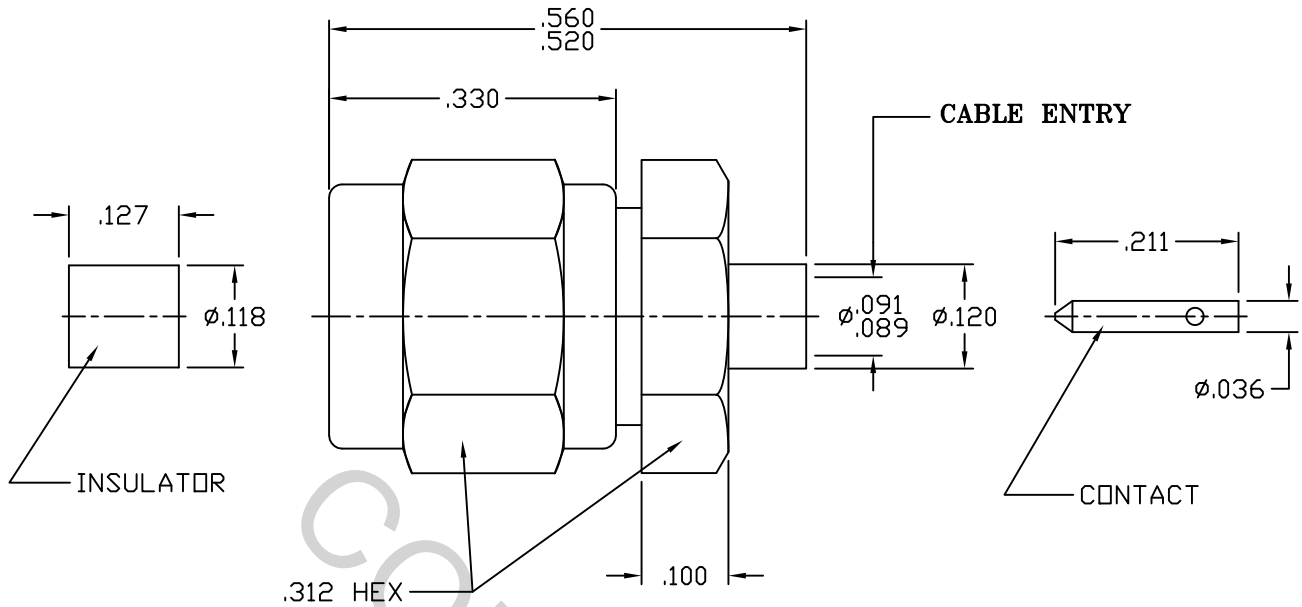


# SPECIFICATION CONTROL DRAWING



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


## 2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 26.5 GHz.
VSWR (MAX.) *	_____	1.05 + .005 x FGHz
INSERTION LOSS (dB MAX.) *	_____	.03 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	_____	50
VOLTAGE RATING (MAX. VRMS)	_____	170
RF LEAKAGE (MIN. dB DOWN)	_____	100 dB - FGHz.
TEMPERATURE RATING (DEGREES CENTIGRADE)	_____	-65° c TO + 165° c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	_____	500
INSULATION RESISTANCE (MIN. MEGOHMS)	_____	10,000
CONTACT RESISTANCE		
• CENTER CONTACT (MAX. MILLIOHMS)	_____	3.0
• OUTER CONTACT (MAX. MILLIOHMS)	_____	2.0

\* TERMINATED IN A 50 OHM LOAD

This Document contains proprietary and confidential information.

**RoHS**  
COMPLIANT

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 <small>HAVERHILL, MA. 01835</small>
				DECIMALS	FRACTIONAL	ANGULAR	
AA	03-2563	12/10/03	DC	.X ± .030 .XX ± .010 .XXX ± .005	± 1/64	X° ± 1° 0' X° X' ± 15'	<b>TITLE</b> <b>SMA, PLUG</b> <b>DIRECT SOLDER</b> <b>.086 CONFORMABLE CABLE</b>
AB	10-1470	5/11/10	DC				
AC	18-1468	4/27/18	DC				
				DRAWN	DC	DATE 12/10/03	
				APPROVED	DC	DATE 12/10/03	
				CODE IDENT.			<b>DWG.</b> <b>NO. 9800-9086-6444</b>
				2J899	SHEET 1 OF 2		

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

### CAPTIVATION—CENTER CONTACT

- MIN. AXIAL FORCE \_\_\_\_\_ N/A
- MIN. 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 ° TO + 200 ° )

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. ) ( 12 RMS )

## 5. MATERIAL

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

CONTACT AND RETAINING RING \_\_\_\_\_ 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.

GASKET \_\_\_\_\_ SILICONE RUBBER PER ZZ-R-765, CLASS IIB, GRADE 50 OR 60.

## 6. FINISH

BODY \_\_\_\_\_ GOLD PER ASTM B 488, TYPE 1, CODE C, CLASS 1.27 (.000050 MIN. THK.) OVER NICKEL PER QQ-N-290, CLASS 1 (.000150 MIN. THK.) OVER NICKEL (WOODS OR WATTS), (.000010 MIN. THK.).

COUPLING NUT \_\_\_\_\_ GOLD PER ASTM B 488, TYPE 1, CODE C, CLASS 0.70 (.000030 MIN. THK.) OVER NICKEL PER QQ-N-290, CLASS 1 (.000050 MIN. THK.) OVER NICKEL (WOODS OR WATTS), (.000010 MIN. THK.).

CONTACT \_\_\_\_\_ GOLD PER ASTM B 488, TYPE 1, CODE C, CLASS 1.27 (.000050 MIN. THK.) OVER NICKEL PER QQ-N-290, (.000050 MIN. THK.) OVER COPPER PER MIL-C-14550 (.000010 MIN. THK.).

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