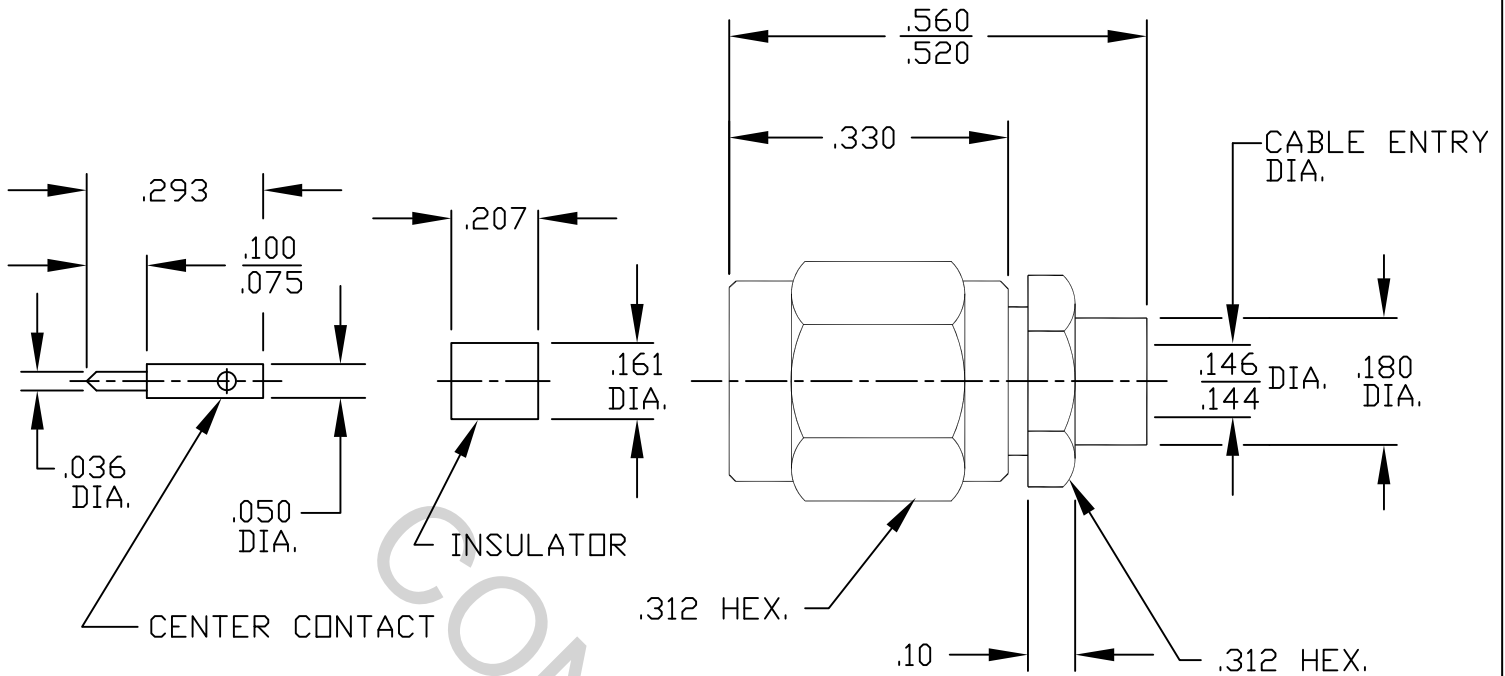


SPECIFICATION CONTROL DRAWING



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.) *	.04 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	335
RF LEAKAGE (MIN. dB DOWN)	100 dB - FGHz.
TEMPERATURE RATING (DEGREES CENTIGRADE)	-65° c TO + 165° c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	1,500
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			 Haverhill, MA. 01835
AA	18-1468	4/27/18	DC	DECIMALS X ± .030 XX ± .010 XXX ± .005	FRACTIONAL ± 1/64	ANGULAR X° ± 1° 0' X° X' ± 15'	
				DRAWN	MS	DATE 4/27/18	TITLE SMA, PLUG DIRECT SOLDER TO .141 SEMI-RIGID CABLE
				APPROVED	DC	DATE 4/27/18	
				CODE IDENT.	SHEET 1 OF 2		DWG. NO. 9800-9141-6444
				2J899			

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION—CENTER CONTACT

- MIN. AXIAL FORCE _____ 6.0 LBS.
- MIN. RADIAL TORQUE _____ 4 in. - oz.

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.) (37 RMS)

5. MATERIAL

BODY AND COUPLING NUT _____ STAINLESS STEEL PER ASTM A 582, TYPE 303, COND. A
CONTACT AND RETAINING RING _____ BERYLLIUM COPPER PER QQ-C-530, ALLOY 173, COND. H.T.
INSULATOR _____ TEFLON PER D 1457
GASKET _____ SILICONE RUBBER PER ZZ-R-765, CLASS IIB, GRADE 50 OR 60.

6. FINISH

BODY _____ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 1.27
(.000050 MIN. THK.) OVER NICKEL PER QQ-N-290,
CLASS 1 (.000150 MIN. THK.) OVER NICKEL (WOODS OR WATTS)
(.000001 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 II, GRADE C, CLASS 1.27
(.000050 MIN. THK.) OVER NICKEL PER QQ-N-290,
CLASS 1 (.000050 MIN. THK.) OVER COPPER PER
ASM-2418 (.000010 MIN. THK.)

INSULATOR, GASKET AND RETAINING RING _____ N/A