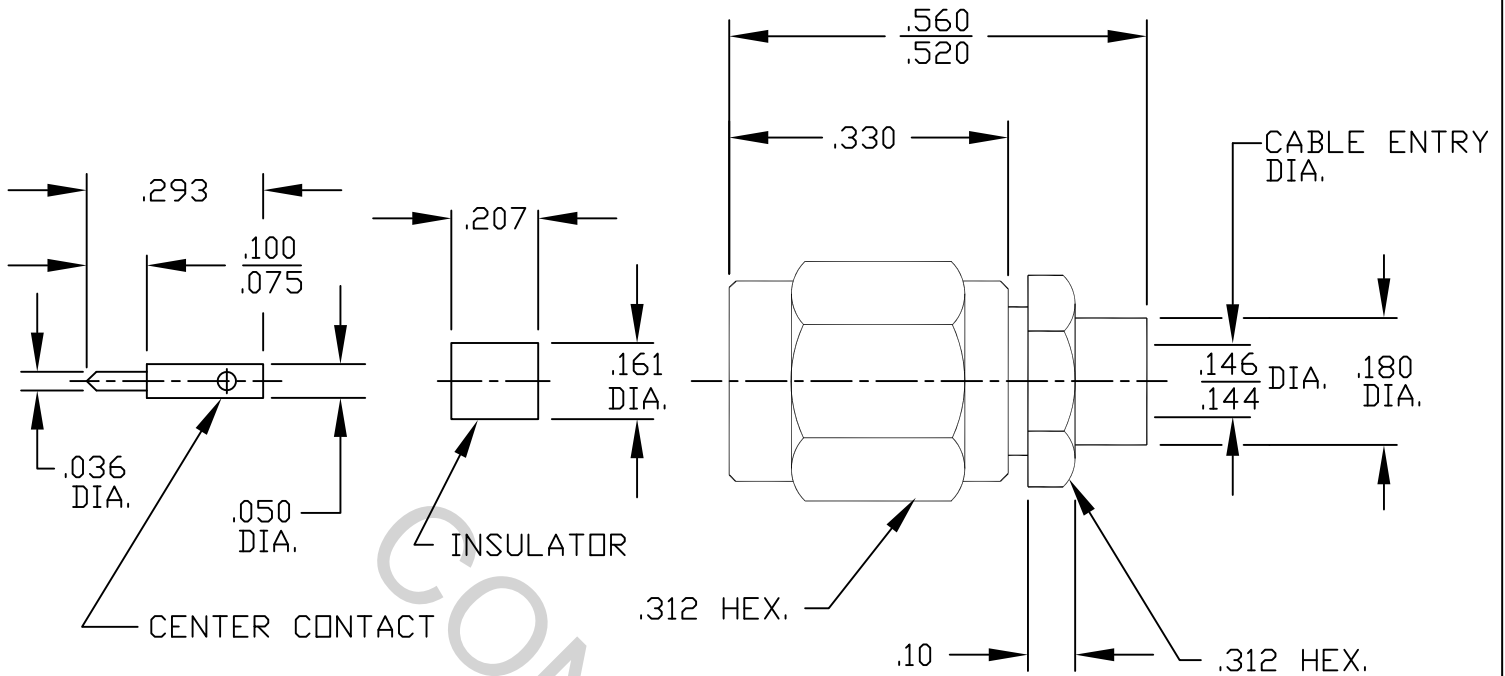


SPECIFICATION CONTROL DRAWING



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
				DECIMALS	FRACTIONAL	ANGULAR	
-	761	7/90	DGG	.X ± .030 .XX ± .010 .XXX ± .005	± 1/64	X° ± 1° 0' X° X' ± 15'	
AA	99-1016	10/28/99	DGG				
AB	03-1535	4/24/03	DGG	DRAWN	TS	DATE 7/90	TITLE SMA, PLUG DIRECT SOLDER TO DYNAFORM .141 SEMI-RIGID CABLE
AC	18-1468	4/27/18	DC	APPROVED	DGG	DATE 7/90	
				CODE IDENT.	SHEET 1 OF 2		DWG. NO. 9800-9141-6244
				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.) (37RMS)

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 _____ PASSIVATE PER AMS-2700, TYPE 2, CLASS 4.

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