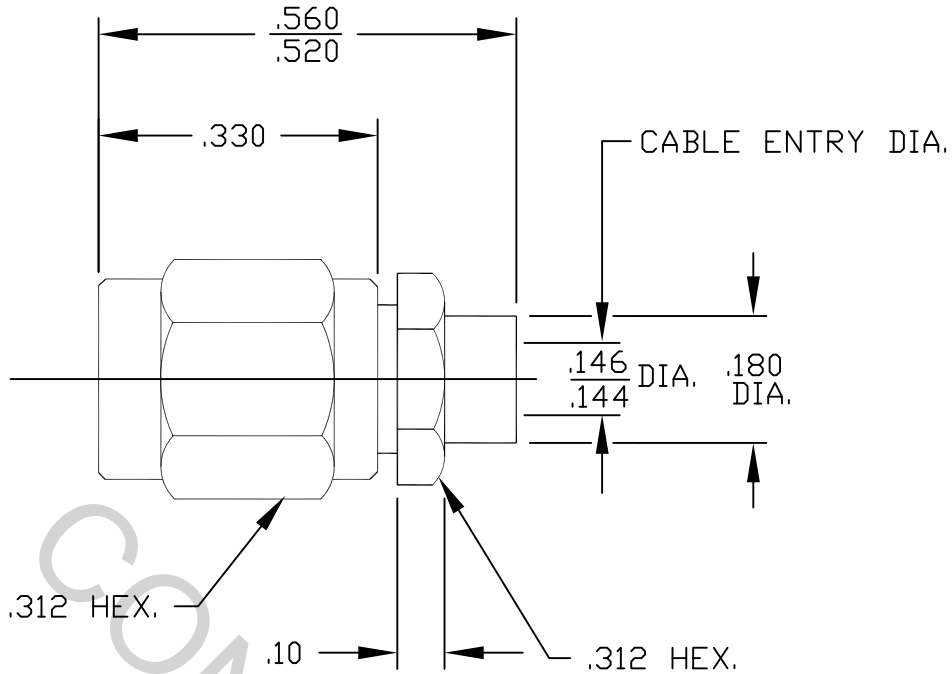


SPECIFICATION CONTROL DRAWING



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


2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 34.0 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)	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

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	
-	981	6/93	MB	.X ± .030 .XX ± .010 .XXX ± .005	± 1/64	X° ± 1° 0' X° X' ± 15'	
AA	99-1026	10/28/99	DGG				
AB	18-1468	4/27/18	DC	DRAWN M.B.	DATE	6/93	TITLE SMA, PLUG DIRECT SOLDER TO DYNAFORM .141 SEMI-RIGID CABLE (WITHOUT CENTER CONTACT)
				APPROVED T.S.	DATE	6/93	
				CODE IDENT. 2J899	SHEET 1 OF 2		DWG. NO. 9800-9141-6440

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT

- MIN. AXIAL FORCE _____ 6.0 LBS.
- MIN. RADIAL TORQUE _____ N/A

CENTER CONTACT AXIAL FORCES

- INSERTION (MAX. OUNCES) _____ INTERFACE 48.0, REAR 32.0
- WITHDRAWAL (MIN. OUNCES) _____ INTERFACE 2.0, REAR 1.0

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.) (37.5 RMS)

5. MATERIAL

- BODY AND COUPLING NUT _____ STAINLESS STEEL PER ASTM A 582, TYPE 303, COND. A
- RETAINING RING _____ BERYLLIUM COPPER PER ASTM B196/B, COPPER ALLOY
- GASKET _____ SILICONE RUBBER PER ZZ-R-765, CLASS IIB, GRADE 50 OR 60.

6. FINISH

- BODY _____ GOLD PER ASTM-B-488, TYPE I, GRADE C, CLASS .7
(.000030 MIN. THK.) OVER NICKEL PER QQ-N-290,
CLASS 1 (.000050 MIN. THK.) OVER
NICKEL (WOODS OR WATTS)(.000010 MIN. THK.)
- COUPLING NUT _____ GOLD PER ASTM-B-488, TYPE I, GRADE C, CLASS .25
(.000010 MIN. THK.) OVER NICKEL PER QQ-N-290,
CLASS 1 (.000050 MINIMUM THICKNESS) OVER
NICKEL (WOODS OR WATTS) (.000010 MIN. THK.)
- GASKET AND RETAINING RING _____ N/A