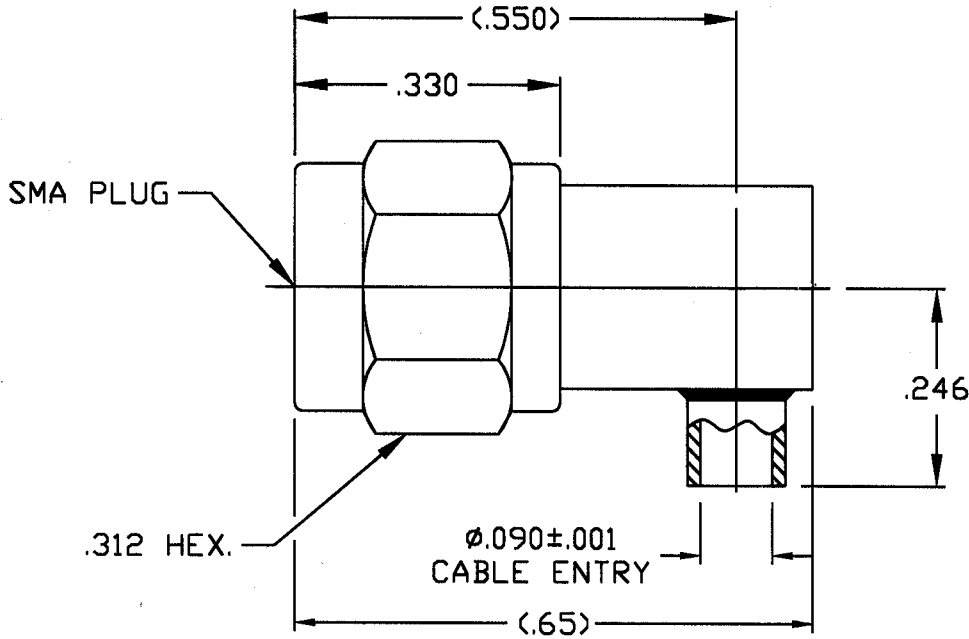


SPECIFICATION CONTROL DRAWING





1. MATING INTERFACE DIMENSIONS FOR SMA PLUG per MIL-STD-348 (Fig. 310-1) AND DYNAWAVE SPECIFICATION MD-98.

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 12.4 GHz.
VSWR (MAX) *	1.04 + .008 x FGHz.
INSERTION LOSS (dB MAX) *	.045 dB x $\sqrt{\text{FGHz}}$.
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

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES	 GEORGETOWN MA 01833
AA	02-0723	8/24/02	EV	DECIMALS FRACTIONAL ANGULAR .X ± .030 3/64 X° ± 1' 0" .XX ± .010 X° ± 15' .XXX ± .005 SURFACE ROUGHNESS 63 $\sqrt{\text{MIL-STD 10}}$	TITLE SMA, PLUG DIRECT SOLDER TO .085 SEMI-RIGID CABLE
				DRAWN G. E. DATE 8/23/02 APPROVED  DATE 8/24/02	
				CODE IDENT. SHEET 1 OF 2 2J899	
					DWG. NO. 9801-8521-2400

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT

- MIN. AXIAL FORCE _____ 4.0 LBS.
- MIN. RADIAL TORQUE _____ N/A

CENTER CONTACT AXIAL FORCES

- INSERTION (MAX. OUNCES) _____ 32.0
- WITHDRAWAL (MIN. OUNCES) _____ 1.0

CONNECTOR DURABILITY (MIN. MATING) _____ 1,000

RECOMMENDED MATING TORQUE _____ 7 - 10 IN. LBS.

4. ENVIRONMENTAL

TEMPERATURE CYCLING _____ MIL-STD-202, METHOD 102, COND. C (-85 ° c TO + 200 ° 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 106, COND. C (70,000 FT.) (190 VRMS)

5. MATERIAL

BODY, CAP, AND CENTER CONTACT _____ BRASS PER ASTM B16, TEMPER H02, ALLOY C36000.

COUPLING NUT _____ STAINLESS STEEL PER ASTM A 582, TYPE 303, COND. A.

RETAINING RING _____ BERYLLIUM COPPER PER ASTM B 196, COPPER ALLOY UNS C17300.

INSULATOR _____ TEFLON PER ASTM D 4894-91

GASKET _____ SILICONE RUBBER PER ZZ-R-765, CLASS IIB, GRADE 50 OR 60

6. FINISH

BODY AND CAP _____ GOLD PER ATSM B488, TYPE I, CODE C, CLASS 1.25
(.000050 MIN. THK.) OVER NICKEL PER QQ-N-290, CLASS 1
(.000150 MIN. THK.).

COUPLING NUT _____ PASSIVATE PER QQ-P-35A, TYPE VI

CENTER CONTACT _____ GOLD PER ATSM B488, TYPE I, CODE C, CLASS 2.5
(.0000100 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

 **dynawave**
INCORPORATED

SHEET 2 OF 2

DWG.
NO.

9801-8521-2400

REV.

AA