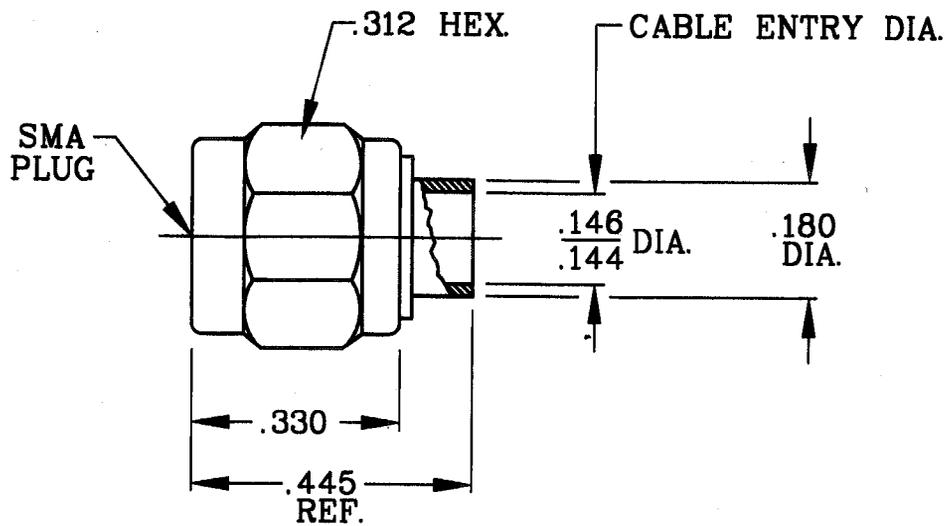


SPECIFICATION CONTROL DRAWING



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

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

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES	 HAVERHILL, MA 01836
AA	02-0214	3/16/02	TS	DECIMALS .X ± .030 .XX ± .010 .XXX ± .005 FRACTIONAL 3/64 ANGULAR X° ± 1' 0" X° X' ± 15"	TITLE SMA, PLUG TO .141 S.R. CABLE DIRECT SOLDER ATTACHMENT
				SURFACE ROUGHNESS 63 ✓ MIL-STD 10. DRAWN <i>RLT</i> DATE <i>3/25/02</i> APPROVED <i>[Signature]</i> DATE <i>3/16/02</i>	
				CODE IDENT. 2J899	DWG. NO. 9800-4120-2401
				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 (-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 105, COND. C (70,000 FT.) (375 VRMS)

5. MATERIAL

BODY _____ BRASS PER ASTM B16, TEMPER H02, ALLOY C 36000

COUPLING NUT _____ STAINLESS STEEL PER ASTM A 581, TYPE 303, COND. A.

CONTACT AND RETAINING RING _____ BERYLLIUM COPPER PER ASTM B196-90, COPPER ALLOY No. UNS C17300, TEMPER TD04.

INSULATOR _____ TEFLON PER ASTM D 4894-91.

GASKET _____ SILICONE RUBBER PER ZZ-R-785 CLASS IIB, GRADE 50 OR 60.

6. FINISH

BODY _____ GOLD PER ATSM B 488, TYPE 2, CODE C, CLASS 1.25 (.000050 MIN. THK.) OVER NICKEL PER QQ-N-290, CLASS 1 COPPER PER MIL-C-14550 (.000010 MIN. THK.).

CONTACT _____ GOLD PER ATSM B 488, TYPE II, CODE C, CLASS 2.5 (.000100 MIN. THK. OVER NICKEL PER QQ-N-290 CLASS 1 (.000050 MIN. THK.).

COUPLING NUT _____ GOLD PER ATSM B 488, TYPE 2, CODE C, CLASS 0.25 OVER NICKEL PER QQ-N-290 (.000050 - .00010 THK.) NICKEL (WOODS OR WATTS)(.000010 MIN. THK.).

INSULATOR, GASKET AND RETAINING RING _____ N/A

dynawave
INCORPORATED

SHEET 2 OF 2

DWG.
NO.

9800-4120-2401

REV.

AA