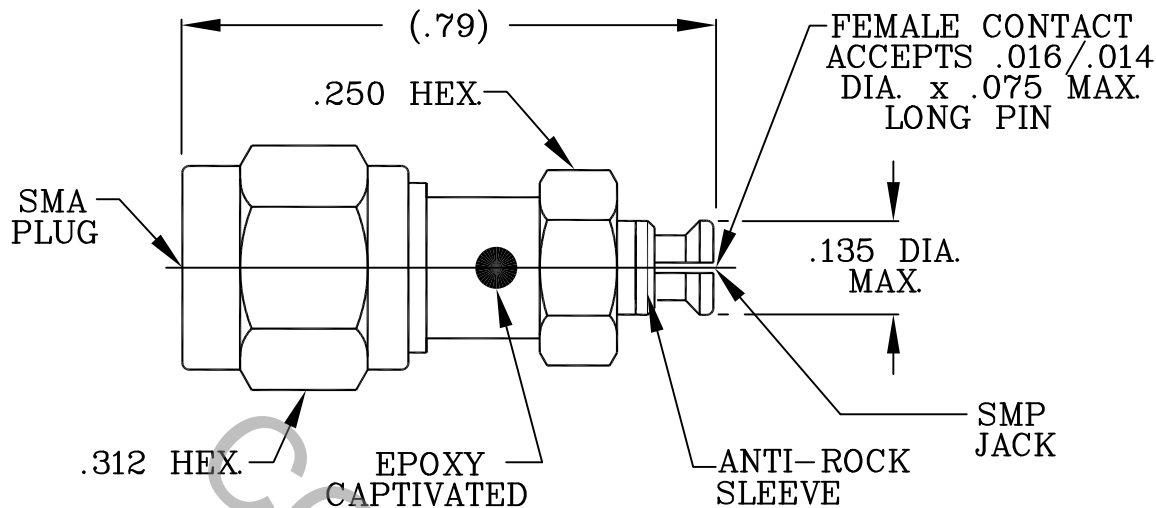


SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS PER DYNAWAVE SPEC. MD-20 (DSCC 94007 FIG. 4) AND MD-98 (MIL-STD-348, Fig. 310-1).

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 26.5 GHz.
VSWR (MAX) *	1.05 + .008 x FGHz.
INSERTION LOSS (dB MAX) *	.045 dB x $\sqrt{\text{FGHz}}$.
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	170
RF LEAKAGE (MIN. dB DOWN)	80 dB - FGHz.
TEMPERATURE RATING (DEGREES CENTIGRADE)	-65 ° c TO +165 ° c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	500
INSULATION RESISTANCE (MIN. MEGOHMS)	5,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	6.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

* TERMINATED IN A 50 OHM LOAD

RoHS
COMPLIANT

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			dynawave INCORPORATED HAVERHILL, MA 01835
				DECIMALS .X +.030 .XX ±.010 .XXX ±.005	FRACTIONAL ±1/64	ANGULAR X ° ±1' 0" X ° X' ± 15"	
—	1036	11/93	MB	SURFACE ROUGHNESS 63 $\sqrt{\text{MIL-STD 10}}$.			TITLE SMP, JACK TO SMA, PLUG
A	1168	9/95	TS				
BA	98-0247	4/3/98	DGG	DRAWN	M. B.	DATE 11/93	
BB	10-1550	6/9/10	TS	APPROVED	DGG	DATE 11/93	
				CODE IDENT.	SHEET 1 OF 2		DWG. NO. 1100-2098-5450
				2J899			

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT

- MIN. AXIAL FORCE _____ 2.0 LBS.
- MIN. RADIAL TORQUE _____ N/A

SMA ENGAGEMENT FORCES

- INSERTION (MAX. OUNCES) _____ 32.0
- WITHDRAWAL (MIN. OUNCES) _____ 2.0

DYNAPAC MATING FORCES

- ENGAGE (MAX. LBS.) _____ FULL DETENT 15 LBS; SMOOTH BORE 2 LBS.
- DISENGAGE (MIN. LBS) _____ FULL DETENT 5 LBS; SMOOTH BORE 0.5 LBS.

CONNECTOR DURABILITY (MIN. MATING) _____ FULL DETENT 100; SMOOTH BORE 1,000

4. ENVIRONMENTAL

TEMPERATURE CYCLING _____ MIL-STD-202, METHOD 102, COND. C (-65 ° c TO + 165 ° 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.) (125 VRMS)

5. MATERIAL

SMP BODY, CENTER CONTACT, _____ BERYLLIUM COPPER PER ASTM B 196/B, 196M-03, COPPER
RETAINING RING, AND ANTI-ROCK SLEEVE _____ ALLOY No. UNS C 17300, TEMPER TD04

SMA CONNECTOR BODY AND COUPLING NUT _____ STAINLESS STEEL PER ASTM A 582 , TYPE 303 , COND.A

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

INSULATOR _____ TEFLON PER ASTM D 1710-02, TYPE 1, GRADE 1, CLASS B.

6. FINISH

SMP BODY AND _____ GOLD PER MIL-G-45204, TYPE II, GRADE C, CLASS 1
ANTI-ROCK SLEEVE _____ OVER NICKEL PER QQ-N-290, CLASS 1.

SMA BODY AND COUPLING NUT _____ PASSIVATE PER AMS-2700, TYPE 2, CLASS 4

CENTER CONTACT _____ GOLD PER ASTM B 488, TYPE 1, CODE C, CLASS 2.5
(.00010 MIN. THK.) OVER NICKEL PER QQ-N-290,
(.000050 MIN. THK.) OVER COPPER PER MIL-C-14550
(.000010 MIN. THK.).

INSULATOR AND GASKET _____ N/A