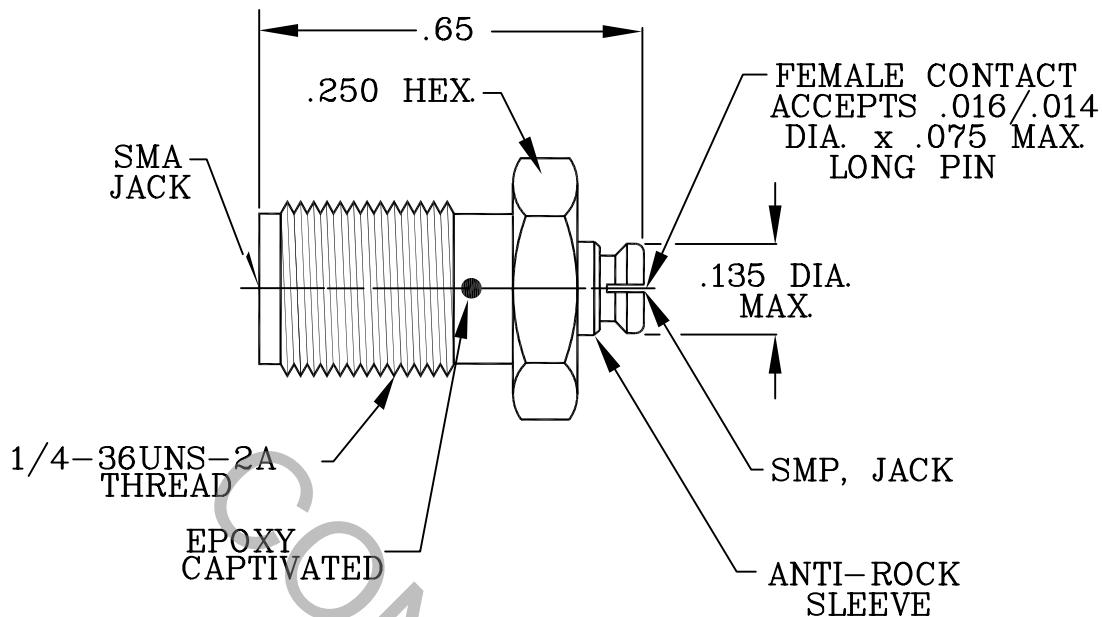


SPECIFICATION CONTROL DRAWING




1. MATING INTERFACE DIMENSIONS PER DYNAWAVE SPEC. MD-20 AND MD-99 (MIL-STD-348, Fig. 310-2).

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

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 INCORPORATED HAVERHILL, MA 01835
				DECIMALS	FRACTIONAL	ANGULAR	
-	832	12/91	CT	.X +.030 .XX ± .010 .XXX ± .005	± 1/64	X ° ± 1' 0" X ° X' ± 15"	TITLE SMP, JACK TO SMA, JACK ADAPTER DWG. NO. 1100-2099-5450
A	848	3/92	T.S.	SURFACE ROUGHNESS 63 $\sqrt{\text{MIL-STD 10}}$.			
B	964	5/93	G.L.	DRAWN	CT	DATE 12/91	
C	1168	9/95	T.S.	APPROVED	DGG	DATE 12/91	
DA	98-0248	4/3/98	DGG				
FA	00-0595	5/3/00	DGG	CODE IDENT.			
				2J899	SHEET 1 OF 2		

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.; SMOOTHBORE 2 LBS.
- DISENGAGE (MIN. LBS.) _____ FULL DETENT 5 LBS.; SMOOTHBORE .5 LBS.

CONNECTOR DURABILITY (MIN. MATING) _____ FULL DETENT 100; SMOOTHBORE 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

DYNAPAC BODY, CENTER CONTACT, _____ BERYLLIUM COPPER PER QQ-C-530, ALLOY 173 COND. HT
AND ANTI-ROCK SLEEVE

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

INSULATOR _____ TEFLON PER D 1457.

6. FINISH

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

SMA BODY _____ PASSIVATE PER QQ-P-35A

CENTER CONTACT _____ GOLD PER MIL-G-45204, TYPE II, GRADE C, CLASS 2
(.000010 MIN.) OVER NICKEL PER QQ-N-290, CLASS 1
(.00010 MIN.) OVER COPPER PER MIL-C-14550 (.000010 MIN.)

INSULATOR _____ N/A