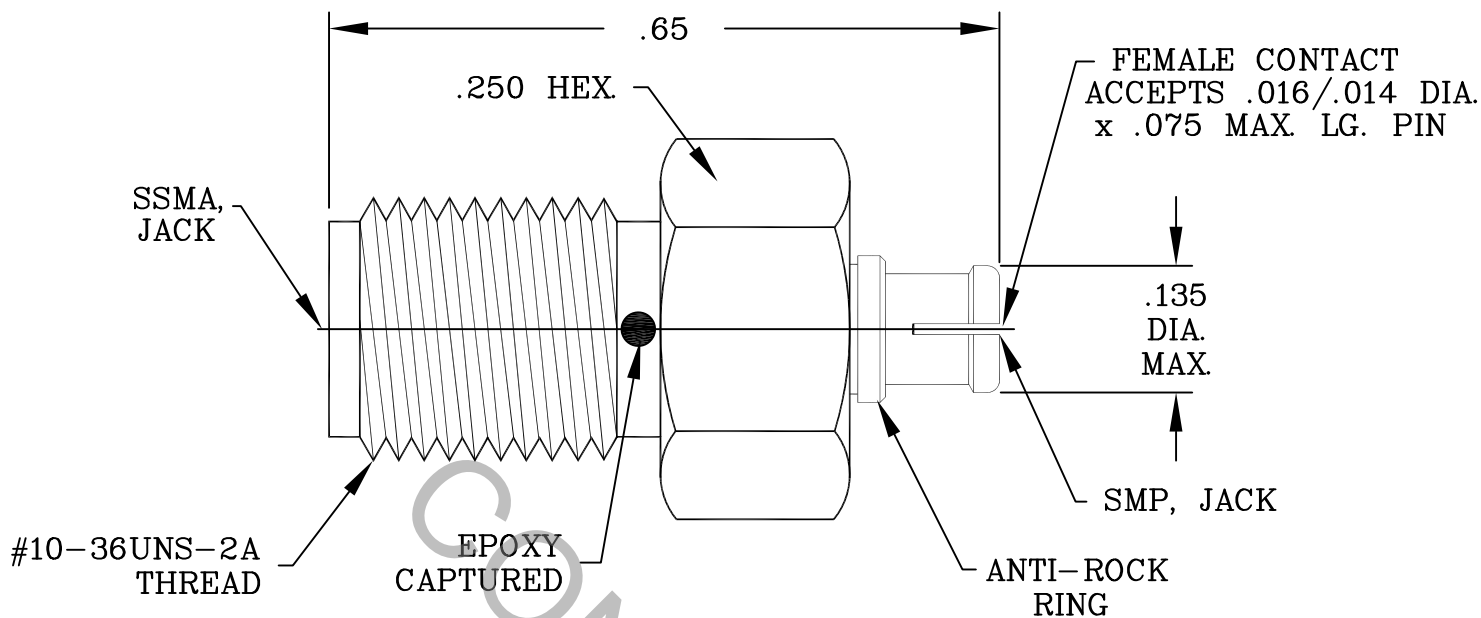


# SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS PER DYNAWAVE SPEC. MD-20 AND MD-93.

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
AA	02-0339	4/23/02	DGG	DECIMALS .X +.030 .XX ±.010 .XXX ±.005	FRACTIONAL ± 1/64	ANGULAR X ° ± 1' 0" X ° X ± 15'	
				SURFACE ROUGHNESS 63 $\sqrt{\text{MIL}}$ -STD 10.			TITLE SMP, JACK TO SSMA, JACK ADAPTER
				DRAWN	KLF	DATE 4/23/02	
				APPROVED	DGG	DATE 4/23/02	
				CODE IDENT.	SHEET 1 OF 2		DWG. NO. 1100-2093-5450
				2J899			

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

### CAPTIVATION-CENTER CONTACT

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

### SSMA CONTACT ENGAGEMENT FORCES

- INSERTION (MAX. OUNCES) \_\_\_\_\_ 32.0
- WITHDRAWAL (MIN. OUNCES) \_\_\_\_\_ 2.0

### SMP 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

SMP BODY, CENTER CONTACT, \_\_\_\_\_ BERYLLIUM COPPER PER ASTM-B-196/B, 196M-03, COPPER  
AND ANTI-ROCK SLEEVE \_\_\_\_\_ ALLOY No. UNS-C17300, TEMPER TD04.

SSMA CONNECTOR BODY \_\_\_\_\_ STAINLESS STEEL PER ASTM A 582 , TYPE 303 , COND.A

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

## 6. FINISH

SMP BODY AND ANTI-ROCK SLEEVE \_\_\_\_\_ GOLD PER ASTM B 488, TYPE 1, CODE C, CLASS 1.25  
(.000050-.000100 THK.) OVER NICKEL PER SAE-AMS-QQ-N-290,  
CLASS 1 (.000100 MIN. THK.) OVER COPPER PER AMS-2418,  
(.000040 MIN. THK.)

SSMA BODY \_\_\_\_\_ PASSIVATE PER AMS-2700, TYPE 2, CLASS 4.

CENTER CONTACT \_\_\_\_\_ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 2.5  
(.000100 MIN. THK.) OVER NICKEL per SAE AMS-QQ-N-290  
(.000050 MIN. THK.) OVER COPPER per AMS-2418  
(.000010 MIN. THK.)

INSULATOR \_\_\_\_\_ N/A