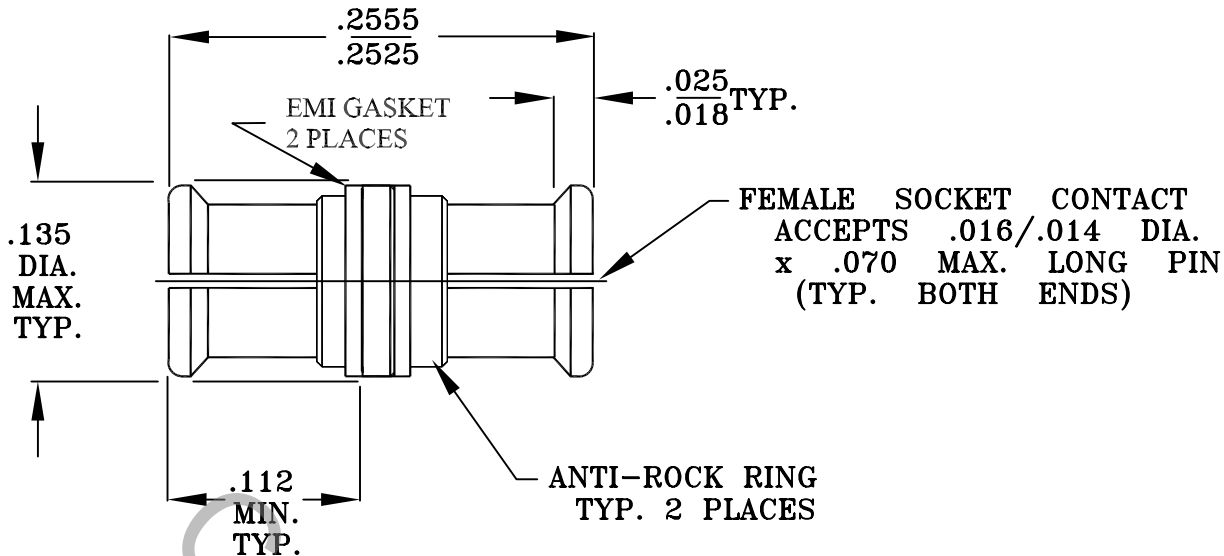


# SPECIFICATION CONTROL DRAWING



**1. MATING INTERFACE DIMENSIONS (SMP SERIES) PER DYNAWAVE SPECIFICATION MD-20-33.**

**2. ELECTRICAL**

FREQUENCY RANGE (DC TO 23.0 GHz.) *	VSWR 1.10 MAX.
FREQUENCY RANGE (23.0 TO 26.5 GHz.) *	VSWR 1.15 MAX.
FREQUENCY RANGE (26.5 TO 40.0 GHz.) *	VSWR 1.40 MAX.
INSERTION LOSS (dB MAX.)	.10 dB x $\sqrt{f\text{GHz}}$ .
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS) (OVER FREQ. RANGE)	170 @ SEA LEVEL 45 @ 70,000 FEET
RF LEAKAGE (MIN. dB DOWN)	75 dB (26.5 GHz.) 100 dB (3.0 GHz)
TEMPERATURE RATING (DEGREES CENTIGRADE)	-65 ° c TO + 165 ° c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	500 @ SEA LEVEL 125 @ 70,000 FEET
INSULATION RESISTANCE (MIN. MEGOHMS)	5,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	6.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

**\*TESTED IN ACCORDANCE WITH DSCC 94007**

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 INCORPORATED HAVERHILL, MA 01835
				DECIMALS	FRACTIONAL	ANGULAR	
AA	99-0097	2/5/99	GL	.X +.030 .XX ± .010 .XXX ± .005	1/64	X ° ± 1 0' X ° X ± 15'	TITLE <b>SMP JACK/JACK ADAPTER ANTI-ROCK, EMI GASKET</b>
AB	99-0404	5/17/99	DGG	SURFACE ROUGHNESS 63 √ MIL-STD 10.			
				DRAWN AH	DATE 2/2/99		DWG. NO. 1100-2020-5433
				APPROVED GL	DATE 2/5/99		
				CODE IDENT. 2J899	SHEET 1 OF 2		

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

### CAPTIVATION-CENTER CONTACT

- MIN. AXIAL FORCE \_\_\_\_\_ 1.5 LBS.
- MIN. RADIAL TORQUE \_\_\_\_\_ N/A
- RADIAL MISALIGNMENT \_\_\_\_\_ +/- .005
- AXIAL MISALIGNMENT \_\_\_\_\_ .005 MIN.
- CONNECTOR DURABILITY (MIN. MATING) \_\_\_\_\_
  - A.) FULL DETENT \_\_\_\_\_ 100
  - B.) LIMITED DETENT \_\_\_\_\_ 500
  - C.) SMOOTH BORE \_\_\_\_\_ 1000

## 4. ENVIRONMENTAL

- THERMAL SHOCK \_\_\_\_\_ MIL-STD-202, METHOD 107, COND. B ( HIGH TEMP. +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,  
1000 MEGOHMS MINIMUM WITHIN 5 MINUTES.
- CORONA (70,000 FEET) \_\_\_\_\_ 190 VRMS
- RF HIGH POTENTIAL MIN. VOLTS \_\_\_\_\_ 325 VRMS @ SEA LEVEL, FREQ. 5 MHz.
- VIBRATION, RANDOM \_\_\_\_\_ MIL-STD 202, METHOD 214, TEST CONDITION F

## 5. MATERIAL

- CONNECTOR BODY, CENTER CONTACT \_\_\_\_\_ BERYLLIUM COPPER PER ASTM B196-90, COPPER ALLOY  
AND ANTI-ROCK RINGS No. UNS C17300, TEMPER TD04.
- INSULATOR \_\_\_\_\_ TEFLON PER ASTM D 1710.
- EMI GASKET \_\_\_\_\_ SILVER PLATED COPPER IN SILICON

## 6. FINISH

- CONNECTOR BODY, CENTER CONTACT \_\_\_\_\_ GOLD PER MIL-G-45204, TYPE II, GRADE C, CLASS 1  
AND ANTI-ROCK RINGS (.000050 MIN.) OVER NICKEL PER QQ-N-290 (.000050 MIN.)
- INSULATOR + EMI GASKET \_\_\_\_\_ N/A