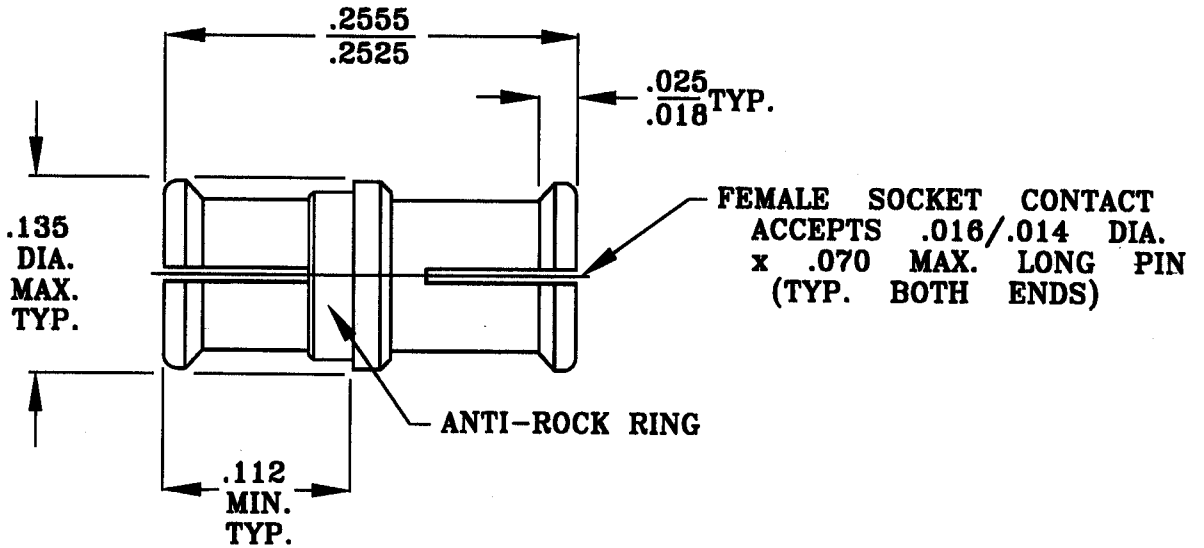


# SPECIFICATION CONTROL DRAWING




1. MATING INTERFACE DIMENSIONS PER DESC DWG. 94007 FIG. 3, (SMP SERIES) AND DYNWAVE SPECIFICATION MD-20.

## 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 $\sqrt{\text{FGHz.}}$
NOMINAL IMPEDANCE (OHMS)	_____	50
VOLTAGE RATING (MAX VRMS)	_____	170 @ SEA LEVEL
(OVER FREQ. RANGE)	_____	45 @ 70,000 FEET
RF LEAKAGE (MIN. dB DOWN)	_____	80 dB (3 GHz. MAX.)
	_____	65 dB (26.5 GHz. MAX.)
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 DESC 94007

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 INCORPORATED GEORGETOWN MA 01833
AA	97-0521	9/16/97	DGG	DECIMALS X ± .030 XX ± .010 XXX ± .006	FRACTIONAL ±/64	ANGULAR X° ± 1'0" X' X" ± 16'	
AB	97-0606	10/23/97	DGG	SURFACE ROUGHNESS 63√ MIL-STD 10.			
AC	98-0408	5/29/98	DGG				
				DRAWN TS	DATE 9/16/97	TITLE "DYNAPAC" INTERCONNECT ADAPTER JACK TO JACK	
				APPROVED DGG	DATE 9/16/97		
				CODE IDENT. 2J899	SHEET 1 OF 2	DWG. NO. 1100-2020-5455	

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

### CAPTIVATION-CENTER CONTACT

- MIN. AXIAL FORCE \_\_\_\_\_ 1.5 LBS.
- MIN. RADIAL TORQUE \_\_\_\_\_ N/A
- RADIAL MISALIGNMENT \_\_\_\_\_ .010 MIN.
- AXIAL MISALIGNMENT \_\_\_\_\_ .010 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 RING \_\_\_\_\_ No. UNS C17300, TEMPER TD04.
- INSULATOR \_\_\_\_\_ TEFLON PER ASTM D 1710.

## 6. FINISH

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

**dynawave**  
INCORPORATED

SHEET 2 OF 2

DWG.  
NO.

1100-2020-5455

REV.

AC