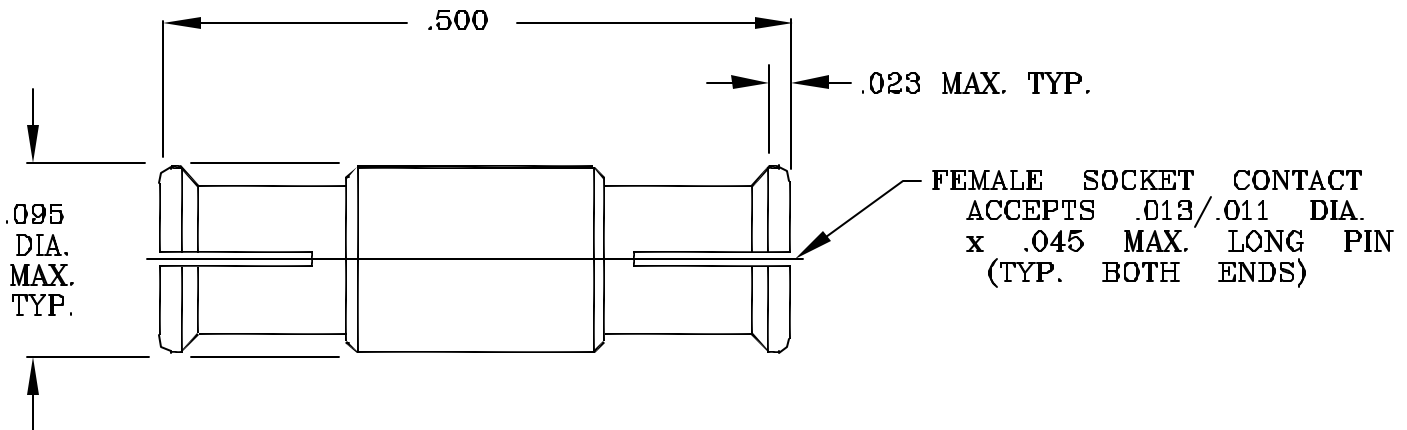


# SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS PER DYNAWAVE SPECIFICATION MD-30.

2. ELECTRICAL

FREQUENCY RANGE _____	DC TO 50.0 GHz.
(DC TO 23.0 GHz.) * _____	VSWR 1.10 MAX
(23.0 TO 26.5 GHz.) * _____	VSWR 1.15 MAX
(26.5 TO 40.0 GHz.) * _____	VSWR 1.40 MAX
(40.0 TO 50.0 GHz.) * _____	VSWR 1.50 MAX
INSERTION LOSS (dB MAX.) _____	.11 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 DSCC 94007 VSWR PROCEDURE.

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			HAVERHILL, MA. 01835
AA	04-2422	12/6/04	TS	DECIMALS X ± .030 .XX ± .010 .XXX ± .005	FRACTIONAL ± 1/64	ANGULAR X° ± 1' 0" X' ± 15"	
				SURFACE ROUGHNESS 89 ✓ MIL-STD 10.			
				DRAWN TS DATE 12/6/04			TITLE SMPM, INTERCONNECT ADAPTER FEMALE TO FEMALE
				APPROVED DC DATE 12/6/04			
				CODE IDENT. 2J899	SHEET 1 OF 2		DWG. NO. 1100-3030-5451

# 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	_____	.000/.007
CONNECTOR DURABILITY (MIN. MATING)	_____	A.) DETENT _____ 100 B.) SMOOTH BORE _____ 1000
CONNECTOR ENGAGEMENT (MAX. LBS)	_____	A.) DETENT _____ 5.0 B.) SMOOTH BORE _____ 2.0
CONNECTOR DISENGAGEMENT (MIN. LBS)	_____	A.) DETENT _____ 2.6 B.) SMOOTH BORE _____ 0.5

## 4. ENVIRONMENTAL

THERMAL SHOCK	_____	MIL-STD-202, METHOD 107, COND. B ( HIGH TEMP. +185°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. 6 MHz.
VIBRATION, RANDOM	_____	MIL-STD 202, METHOD 214, TEST CONDITION F

## 5. MATERIAL

CONNECTOR BODY AND CENTER CONTACT	_____	BERYLLIUM COPPER PER ASTM B196-90, COPPER ALLOY No. UNS C17300, TEMPER T004.
INSULATOR	_____	TEFLON PER ASTM D 1710.

## 6. FINISH

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