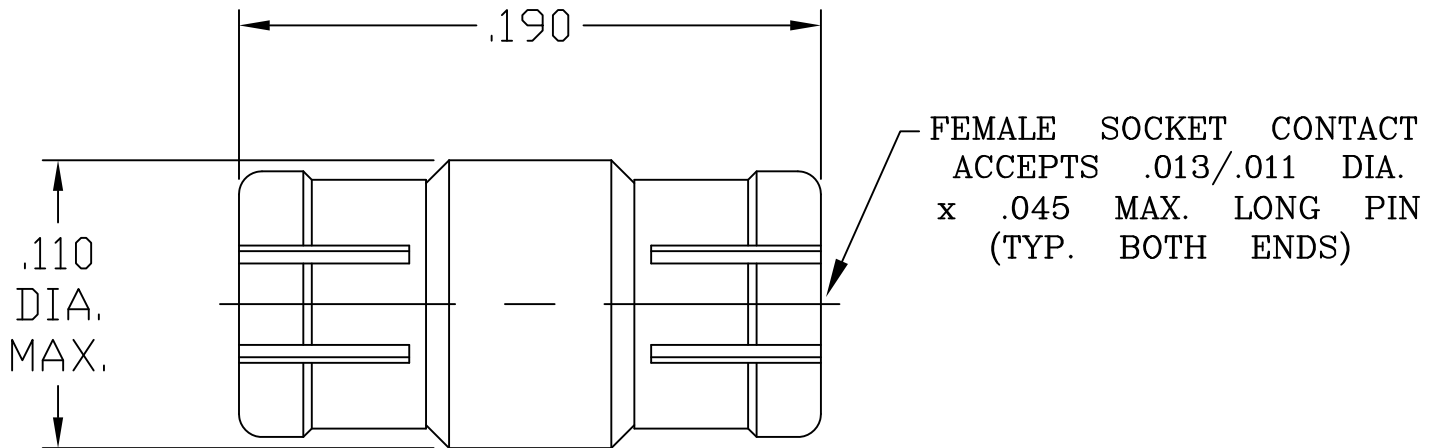


SPECIFICATION CONTROL DRAWING



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.)	_____	.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 DSCC 94007 VSWR PROCEDURE.

RoHS
COMPLIANT

This Document contains proprietary and confidential information.

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES	 HAVERHILL, MA. 01835
AA	02-0596	6/27/02	DGG	DECIMALS: .X ± .030 .XX ± .010 .XXX ± .005 FRACTIONAL: ± 1/64 ANGULAR: X ° ± 1' 0" X ° X' ± 15"	TITLE SMPM, INTERCONNECT ADAPTER FEMALE TO FEMALE
BA	02-1097	12/10/02	DGG	SURFACE ROUGHNESS 63 √ MIL-STD 10.	
BB	03-1346	3/18/03	DGG	DRAWN G.E. DATE 6/27/02	DWG. NO. 1100-3030-5450
				APPROVED DGG DATE 6/27/02	
				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 _____ .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 _____ 2.5
B.) SMOOTH BORE _____ 0.5

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 AND CENTER CONTACT _____ BERYLLIUM COPPER PER ASTM B196/B, 196M-03 COPPER
ALLOY No. UNS C17300, TEMPER TD04.
- INSULATOR _____ TEFLON PER ASTM D 1710-02, TYPE 1, GRADE 1, CLASS B.

6. FINISH

- CONNECTOR BODY _____ GOLD PER ASTM B 488, TYPE I, CODE C, CLASS 1.25
(.000050 MIN. THK.) OVER NICKEL PER SAE AMS QQ-N-290 CLASS 1
(.000100 MIN. THK.) OVER COPPER PER AMS 2418 (.000040 MIN. THK.)
- CENTER CONTACT _____ GOLD PER ASTM B 488, TYPE I, CODE C, CLASS 1.25
(.000050 MIN. THK.) OVER NICKEL PER SAE AMS QQ-N-290 CLASS 1
(.000050 MIN. THK.) OVER COPPER PER AMS 2418 (.000010 MIN. THK.)
- INSULATOR _____ N/A