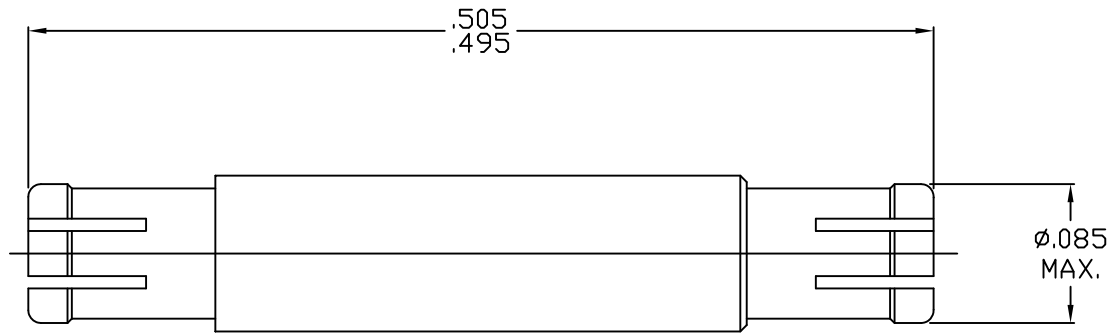


# SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS PER DYNAWAVE SPECIFICATION MD-50.

2. ELECTRICAL

FREQUENCY RANGE	_____	DC TO 60.0 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 60.0 GHz.) *	_____	VSWR 1.50 MAX.
INSERTION LOSS (dB MAX)	_____	.15 dB x $\sqrt{\text{FGHz}}$ .
NOMINAL IMPEDANCE (OHMS)	_____	50
VOLTAGE RATING (MAX. VRMS)	<input type="text"/>	170 @ SEA LEVEL
(OVER FREQ. RANGE)		45 @ 70,000 FEET
RF LEAKAGE (MIN. dB DOWN)	<input type="text"/>	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)	<input type="text"/>	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

**RoHS**  
COMPLIANT

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 INCORPORATED HAVERHILL, MA. 01835
AA	10-2164	12/16/10	TS	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.			
				DRAWN	TS	DATE 12/16/10	TITLE <b>SMPSM, INTERCONNECT ADAPTER JACK TO JACK</b>
				APPROVED	DC	DATE 12/16/10	
				CODE IDENT.			DWG. NO. 1100-5050-5451
				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 _____	.0075 MAX
AXIAL MISALIGNMENT _____	.000/.010
CONNECTOR DURABILITY (MIN. MATING) _____	A.) FULL DETENT _____ 100 B.) SMOOTH BORE _____ 500
CONNECTOR ENGAGEMENT (MAX. LBS.) _____	A.) FULL DETENT _____ 6.5 B.) SMOOTH BORE _____ 1.5
CONNECTOR DISENGAGEMENT (MIN. LBS.) _____	A.) FULL DETENT _____ 3.5 B.) SMOOTH BORE _____ 0.50

## 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 AND CENTER CONTACT _____	GOLD PER MIL-G-45204, TYPE II, GRADE C, CLASS 1.25 (.000050 MIN.) OVER NICKEL PER SAE AMS QQ-N-290, CLASS 1 (.000050 MIN.).
INSULATOR _____	N/A