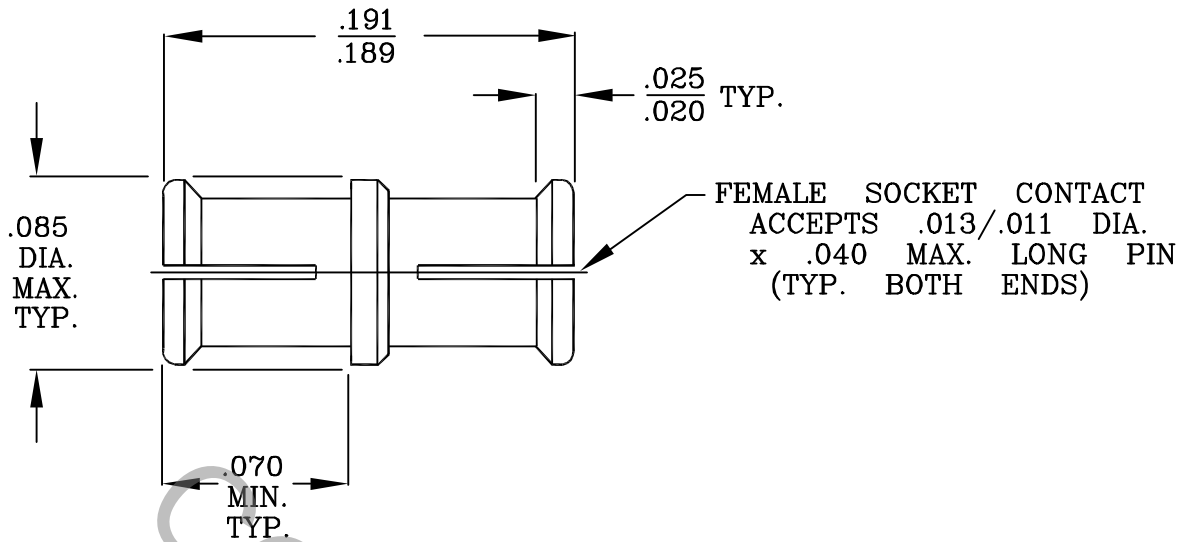


SPECIFICATION CONTROL DRAWING



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.) _____	.10 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

* TESTED IN ACCORDANCE WITH DSCC 94007 VSWR PROCEDURE.

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES	HAVERHILL, MA 01835
AA	01-1182	12/13/01	DGG	DECIMALS FRACTIONAL ANGULAR .X ± .030 X° ± 1' 0" .XX ± .010 X° X' ± 15" .XXX ± .005 ± 1/64	TITLE SMPSM, INTERCONNECT ADAPTER JACK TO JACK
AB	02-0563	6/20/02	DGG	SURFACE ROUGHNESS 63 $\sqrt{\text{MIL-STD 10}}$.	
AC	02-1095	12/10/02	DGG	DRAWN KLF DATE 12/13/01	
AD	03-1056	1/14/03	BN	APPROVED DGG DATE 12/13/01	
AE	03-1573	4/30/03	DC		
AF	05-1699	6/23/05	DC	CODE IDENT. SHEET 1 OF 2 2J899	
					DWG. NO. 1100-5050-5450

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT

● MIN. AXIAL FORCE	_____	1.5 LBS.
● MIN. RADIAL TORQUE	_____	N/A
RADIAL MISALIGNMENT	_____	.010 MAX.
AXIAL MISALIGNMENT	_____	.000/.007
CONNECTOR DURABILITY (MIN. MATING)	_____	A.) FULL DETENT _____ 100 B.) SMOOTH BORE _____ 1000
CONNECTOR ENGAGEMENT (MAX LBS.)	_____	A.) FULL DETENT _____ 4.0 B.) SMOOTH BORE _____ 1.5
CONNECTOR DISENGAGEMENT (MIN. LBS.)	_____	A.) FULL DETENT _____ 1.5 B.) SMOOTH BORE _____ 0.25

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 B196-90, COPPER ALLOY No. UNS C17300, TEMPER TD04.
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