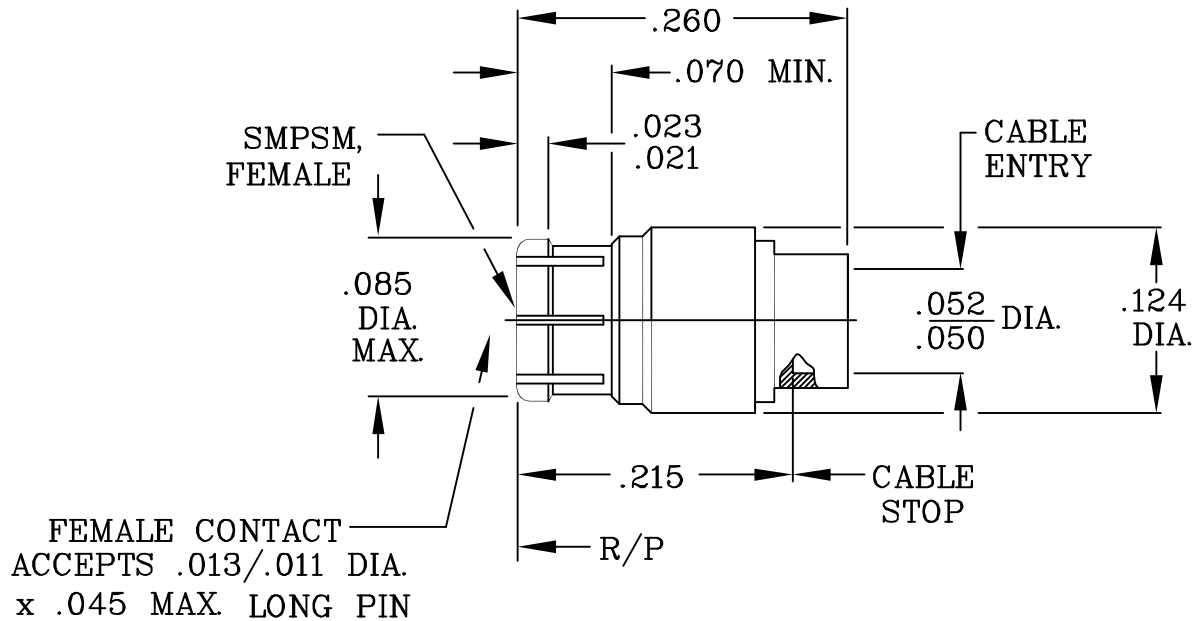


SPECIFICATION CONTROL DRAWING



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

2. ELECTRICAL

FREQUENCY RANGE GHz _____ DC TO 60.0 GHz.

VSWR (MAX) * _____ DC TO 18.0 GHz., 1.20 MAX.

_____ 18.0 TO 26.5 GHz., 1.35 MAX.

_____ 26.5 TO 60.0 GHz., 1.50 MAX.

INSERTION LOSS (dB MAX.) _____ .12 dB x $\sqrt{\text{FGHz.}}$

NOMINAL IMPEDANCE (OHMS) _____ 50

VOLTAGE RATING (MAX. VRMS) _____ 170

RF LEAKAGE (MIN. dB DOWN) _____ 3.0 GHz., -80 dB - FGHz.

_____ 26.5 GHz., -65 dB - FGHz.

TEMPERATURE RATING (DEGREES CENTIGRADE) _____ -65 ° c TO +150 ° c

DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS) _____ 500

INSULATION RESISTANCE (MIN. MEGOHMS) _____ 5,000

CONTACT RESISTANCE

- CENTER CONTACT (MAX. MILLIOHMS) _____ 4.0
- OUTER CONTACT (MAX. MILLIOHMS) _____ 2.0

* GATED TEST DATA

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 HAVERHILL MA 01835
AA	03-1224	2/19/03	DGG	DECIMALS .X ± .030 .XX ± .010 .XXX ± .005	FRACTIONAL ± 1/16"	ANGULAR X° ± 1' 0" X° X' ± 15'	
AB	05-1699	6/23/05	DC	SURFACE ROUGHNESS 63 √ MIL-STD 10.			
				DRAWN GE	DATE 2/3/03	TITLE SMPSM, FEMALE, DIRECT SOLDER TO .047 S.R. CABLE	
				APPROVED DGG	DATE 2/19/03		
				CODE IDENT. 2J899	SHEET 1 OF 2	DWG. NO. 5000-4725-5400	

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT

- MIN. AXIAL FORCE _____ 1.5 LBS.
- MIN. RADIAL TORQUE _____ N/A

CONNECTOR ENGAGEMENT FORCES

- INSERTION (MAX. LBS.) _____ 4.0 *
- WITHDRAWAL (MIN. LBS.) _____ 1.0 *

CONNECTOR DURABILITY (MIN. MATING) _____ 100 *

* SMOOTH BORE SHROUD

4. ENVIRONMENTAL

TEMPERATURE CYCLING _____ MIL-STD-202, METHOD 102, COND. C (-65 ° c TO + 165 ° c)
SHOCK _____ MIL-STD-202, METHOD 213, COND. I (100 G's)
VIBRATION (HIGH FREQUENCY) _____ MIL-STD-202, METHOD 204, COND. D (20 G's)
VIBRATION (RANDOM) _____ MIL-STD-202, METHOD 214, TEST COND. F.
THERMAL SHOCK _____ MIL-STD-202, METHOD 107, TEST COND. B, HIGH TEMP. +165° c.
MOISTURE RESISTANCE _____ MIL-STD-202, METHOD 106, LESS STEP 7b, 1000 MEGOHMS (5 MINUTES).
CORROSION _____ MIL-STD-202, METHOD 101, COND. B (48 HOURS)
BAROMETRIC PRESSURE (ALTITUDE) _____ MIL-STD-202, METHOD 105, COND. C (70,000 FT.) (125 VRMS MIN.)
CORONA LEVEL _____ 70,000 FEET.

5. MATERIAL

CONNECTOR BODY, CENTER CONTACT, _____ BERYLLIUM COPPER PER ASTM B196-90, COPPER ALLOY
No. UNS C17300, TEMPER TD04.

INSULATOR _____ TEFLON PER D 4894.

6. FINISH

CONNECTOR BODY _____ GOLD PER ATSM B 488, TYPE I, CODE C, CLASS 0.75
(.000030-.000050 THK.) OVER NICKEL PER MIL-P-27418
(.00010 MIN. THK.) OVER NICKEL (WOODS OR WATTS)
(.000010 MIN. THK.).

CENTER CONTACT _____ GOLD PER ATSM B 488, TYPE I, CODE C, CLASS 0.75
(.000030/.000055 THK.) OVER NICKEL PER QQ-N-290,
CLASS 1 (.000050-.000075 THK.) OVER COPPER PER
MIL-C-14550, (.000010 MIN. THK.).

INSULATOR _____ N/A



SHEET 2 OF 2

DWG.
NO.

5000-4725-5400

REV.

AB