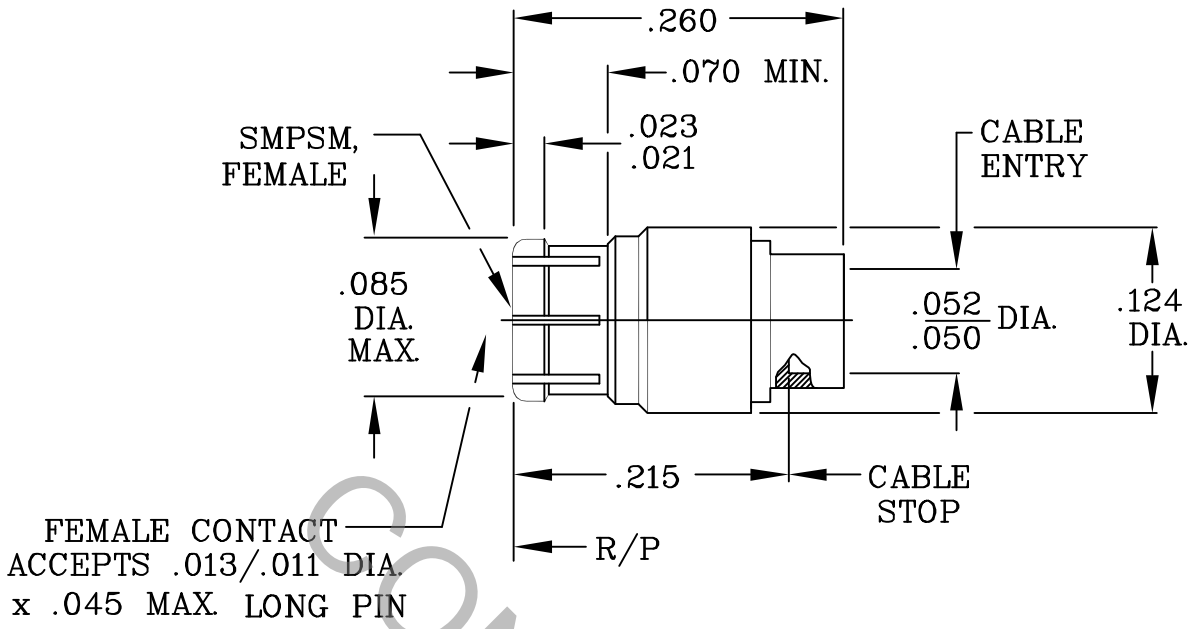
SPECIFICATION CONTROL DRAWING



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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 $\sqrt{FGHz}$.
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.
AA	03-1224	2/19/03	DGG
AB	05-1699	6/23/05	DC

DIMENSIONS ARE IN INCHES
TOLERANCES

DECIMALS	FRACTIONAL	ANGULAR
.X ±.030 .XX ±.010 .XXX ±.005	±1/16"	X°±1° 0' X° X' ±15'

SURFACE ROUGHNESS 63 √ MIL-STD 10.

dynawave INCORPORATED
HAVERHILL MA. 01835

DRAWN GE DATE 2/3/03

APPROVED DGG DATE 2/19/03

TITLE
SMPSM, FEMALE,
DIRECT SOLDER
TO .047 S.R. CABLE

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.

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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