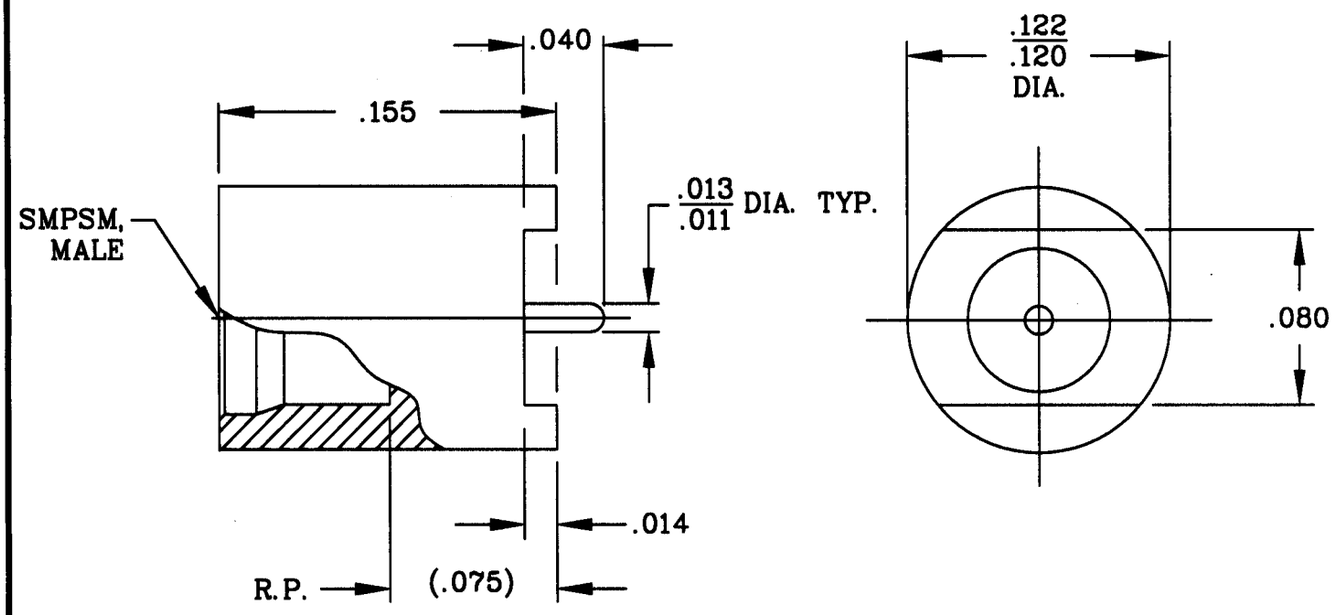
SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS PER DYNAWAVE SPECIFICATION MD-51-9(SMPSM, MALE).

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 6.0 GHz.
VSWR (MAX.) *	1.10 + .010 x FGHz.
INSERTION LOSS (dB MAX.)	.05 dB x $\sqrt{FGHz}$.
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	250
RF LEAKAGE (MIN. dB DOWN)	N/A
TEMPERATURE RATING (DEGREES CENTIGRADE)	-65 ° c TO +165 ° c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	350
INSULATION RESISTANCE (MIN. MEGOHMS)	5,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	3.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

* TERMINATED IN A 50 OHM LOAD

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REV.	DCN NO.	DATE	APP.
AA	01-1187	12/19/01	DGG
AB	03-1465		

DIMENSIONS ARE IN INCHES
TOLERANCES
DECIMALS: .X ±.030, .XX ±.010, .XXX ±.005
FRACTIONAL: ±1/64
ANGULAR: X° ±1°0', X°X' ±15'
SURFACE ROUGHNESS 63 √ MIL-STD 10.

dynawave INCORPORATED
HAVERHILL, MA. 01835

DRAWN KLF DATE 12/19/01
APPROVED DGG DATE 12/19/01

TITLE: SMPSM, MALE
SMOOTH BORE
SURFACE MOUNT

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 5129-0031-6412

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT	
MIN. AXIAL FORCE	3.5 LBS.
MIN. RADIAL TORQUE	N/A
CONNECTOR ENGAGEMENT FORCES	
• INSERTION (MAX. LBS.)	2.0
• WITHDRAWAL (MIN. LBS.)	0.25
CONNECTOR DURABILITY (MIN. MATING)	1,000

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	MIL-STD-202, METHOD 204, COND. D (20 G's)
MOISTURE RESISTANCE	MIL-STD-202, METHOD 106, LESS STEP 7b
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)

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5. MATERIAL

CONNECTOR BODY	STAINLESS STEEL PER ASTM A 582, TYPE 303, COND. A.
CENTER CONTACT	BERYLLIUM COPPER PER ASTM B196, COPPER ALLOY UNS C17300.
INSULATOR	TEFLON PER ASTM D 4894-91.

6. FINISH

CONNECTOR BODY	GOLD PER ATSM B 488, TYPE 2, CODE C, CLASS 1.25 (.000050 MIN. THK.) OVER NICKEL PER QQ-N-290, CLASS 1, (.000150 MIN. THK.) OVER NICKEL (WOODS OR WATTS).
CENTER CONTACT	GOLD per MIL-G-45204, TYPE II, GRADE C, CLASS 2 (.000010 Minimum Thickness) OVER NICKEL per QQ-N-290, CLASS 1 (.000100 Minimum Thickness) OVER COPPER per MIL-C-14550 (.000010 Minimum Thickess).
INSULATOR	N/A