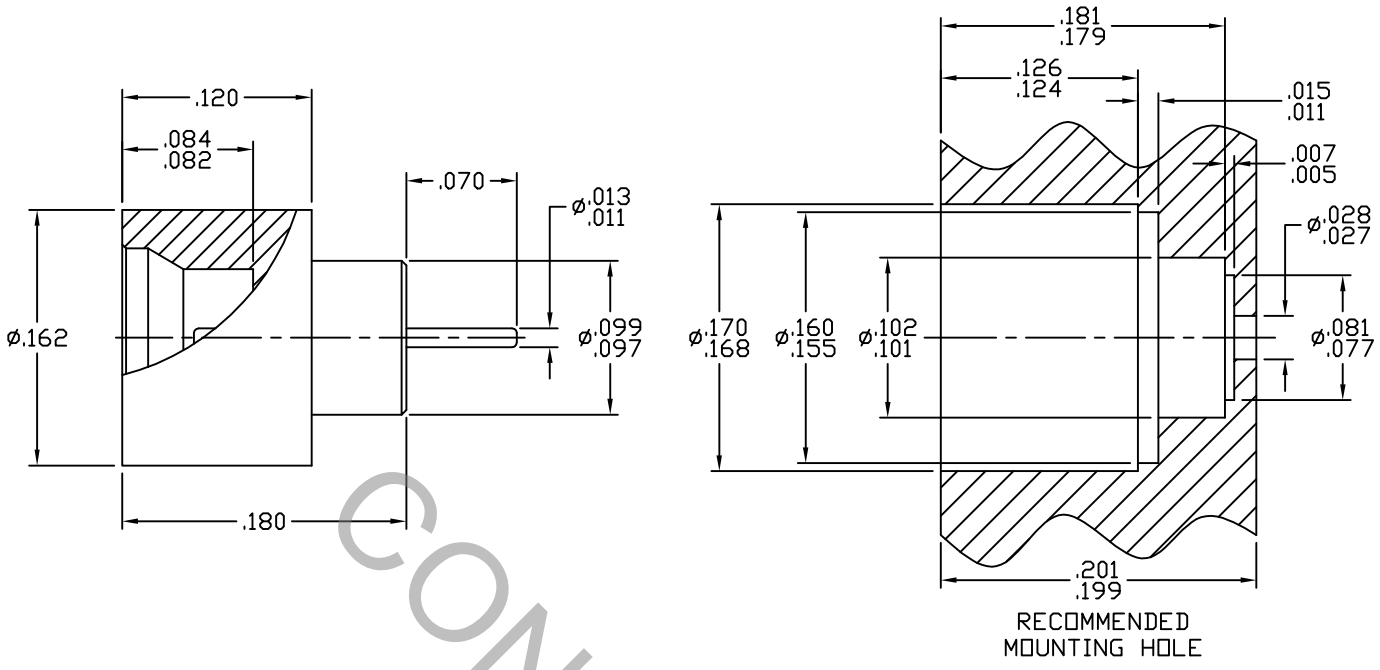
SPECIFICATION CONTROL DRAWING



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1. MATING INTERFACE DIMENSIONS PER MIL-STD-348A Fig. 328.3 (SMPM MALE)

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 46.0 GHz.
VSWR (MAX.) ❋	1.05 + .010 x FGHz.
INSERTION LOSS (dB MAX.) ❋	.05 dB x $\sqrt{\text{FGHz.}}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	125
RF LEAKAGE (MIN. dB DOWN)	N/A
TEMPERATURE RATING (DEGREES CENTIGRADE)	−65 ° c TO +165 ° c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	375
INSULATION RESISTANCE (MIN. MEGOHMS)	10,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	10.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

❋ TERMINATED IN A 50 OHM LOAD

REV.	DCN NO.	DATE	APP.
AA	05-1406	3/30/05	DC

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 DC DATE 3/30/05

APPROVED DC DATE 3/30/05

TITLE SMPM MALE, SMOOTH BORE, HERMETICALLY SEALED SHROUD, SOLDER-IN

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 3149-0435-7400

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT
- MIN. AXIAL FORCE ——— 4.5 LBS.
- MIN. RADIAL TORQUE ——— 2.5 IN. OZ.

CONNECTOR ENGAGEMENT FORCES
- INSERTION (MAX. OUNCES) ——— 2.0 LBS.
- WITHDRAWAL (MIN. OUNCES) ——— 0.5 LBS.

CONNECTOR DURABILITY (MIN. MATING) ——— N/A

4. ENVIRONMENTAL

TEMPERATURE CYCLING ——— MIL–STD–202, METHOD 102, COND. C (–65 ° c TO + 200 °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.) (90 VRMS)
HERMITICITY ——— 1×10^{-8} cc/SEC.

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5. MATERIAL

CONNECTOR BODY AND GLASS PIN ——— KOVAR PER MIL–I–23011
GLASS ——— CORNING 7070

6. FINISH

CONNECTOR BODY AND GLASS PIN ——— GOLD PER ASTM–B–488, TYPE I, CODE C, CLASS 1.25
(.000050 MIN. THK.) OVER NICKEL PER QQ–N–290, CLASS 1
(.000150 MIN. THK.) OVER NICKEL WOODS OR WATTS, (.000010 MIN. THK.)

GLASS ——— N/A