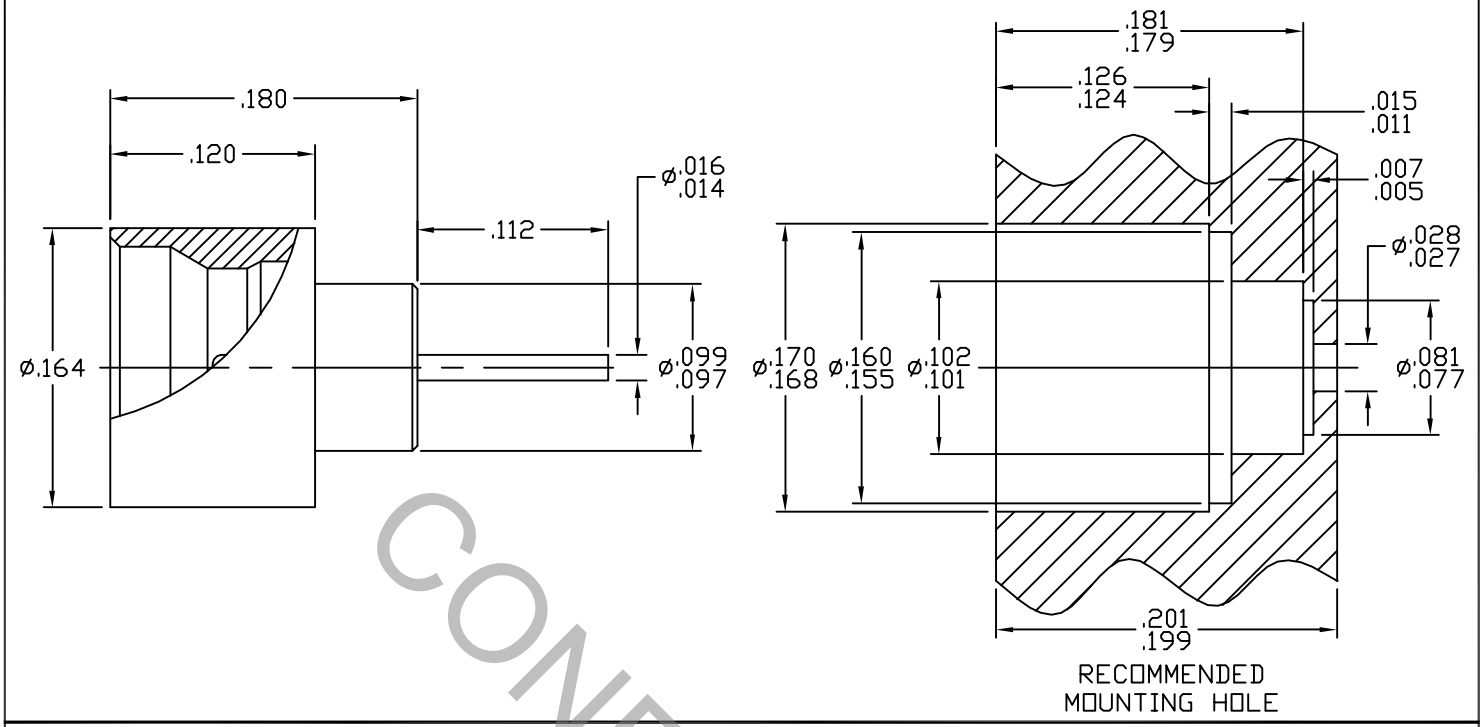
SPECIFICATION CONTROL DRAWING



CONFIDENTIAL

1. MATING INTERFACE DIMENSIONS PER DYNAWAVE SPEC. MD-21 (SMP MALE) AND MIL-STD-348A-326.2

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 39.0 GHz.
VSWR (MAX.) ❋	1.02 + .003 x FGHz.
INSERTION LOSS (dB MAX.) ❋	.045 dB x $\sqrt{\text{FGHz}}$.
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)	750
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	06-1179	2/14/06	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 2/14/06

APPROVED DC DATE 2/14/06

TITLE SMP, PLUG
(FULL DETENT)
HERMETICALLY SEALED SHROUD
SOLDER MOUNT

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 2140-0435-7402

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) ——— 10.0 LBS.
- WITHDRAWAL (MIN. OUNCES) ——— 5.0 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.) (190 VRMS)
HERMETICITY ——— 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 MIL–G–45204,TYPE III,GRADE A, CLASS 1 (.000050 MIN. THK.)
OVER NICKEL PER MIL–P–27418 (.000100/.000150 THK.)
OVER NICKEL (WOODS OR WATTS),(.00001 MIN. THK.)

GLASS ——— N/A