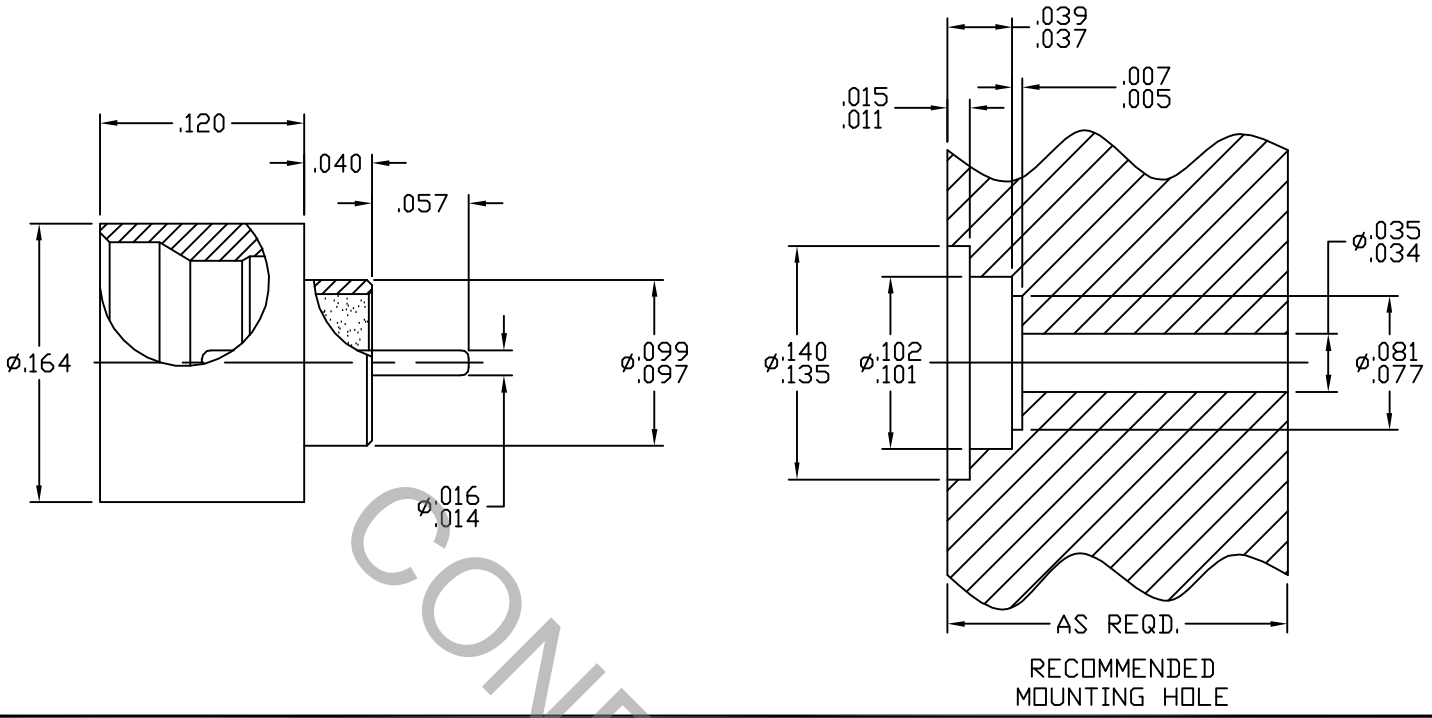
SPECIFICATION CONTROL DRAWING



CONFIDENTIAL

1. MATING INTERFACE DIMENSIONS PER DYNAWAVE SPEC. MD-21-7 (SMP MALE) AND MIL-STD-348A-326.3

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 39.0 GHz.
VSWR (MAX.) *	1.05 + .006 x FGHz.
INSERTION LOSS (dB MAX.) *	.045 dB x $\sqrt{\text{FGHz.}}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	115
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)	10.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

* TERMINATED IN A 50 OHM LOAD

REV.	DCN NO.	DATE	APP.
AA	04-1060	1/14/04	DC
AB	05-1738	7/20/05	DC

DIMENSIONS ARE IN INCHES
TOLERANCES

DECIMALS	FRACTIONAL	ANGULAR
.X ± .030 .XX ± .010 .XXX ± .005	±1/64	X ° ± 1 °0' X ° X' ± 15'

SURFACE ROUGHNESS 63 √ MIL-STD 10.

dynawave INCORPORATED
HAVERHILL, MA. 01835

DRAWN DC DATE 1/14/04

APPROVED DC DATE 1/14/04

TITLE SMP, MALE
(LIMITED DETENT)
HERMETICALLY SEALED SHROUD
SOLDER MOUNT

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 2147-0434-7401

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) ——— 7.0 LBS.
- WITHDRAWAL (MIN. OUNCES) ——— 1.0 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