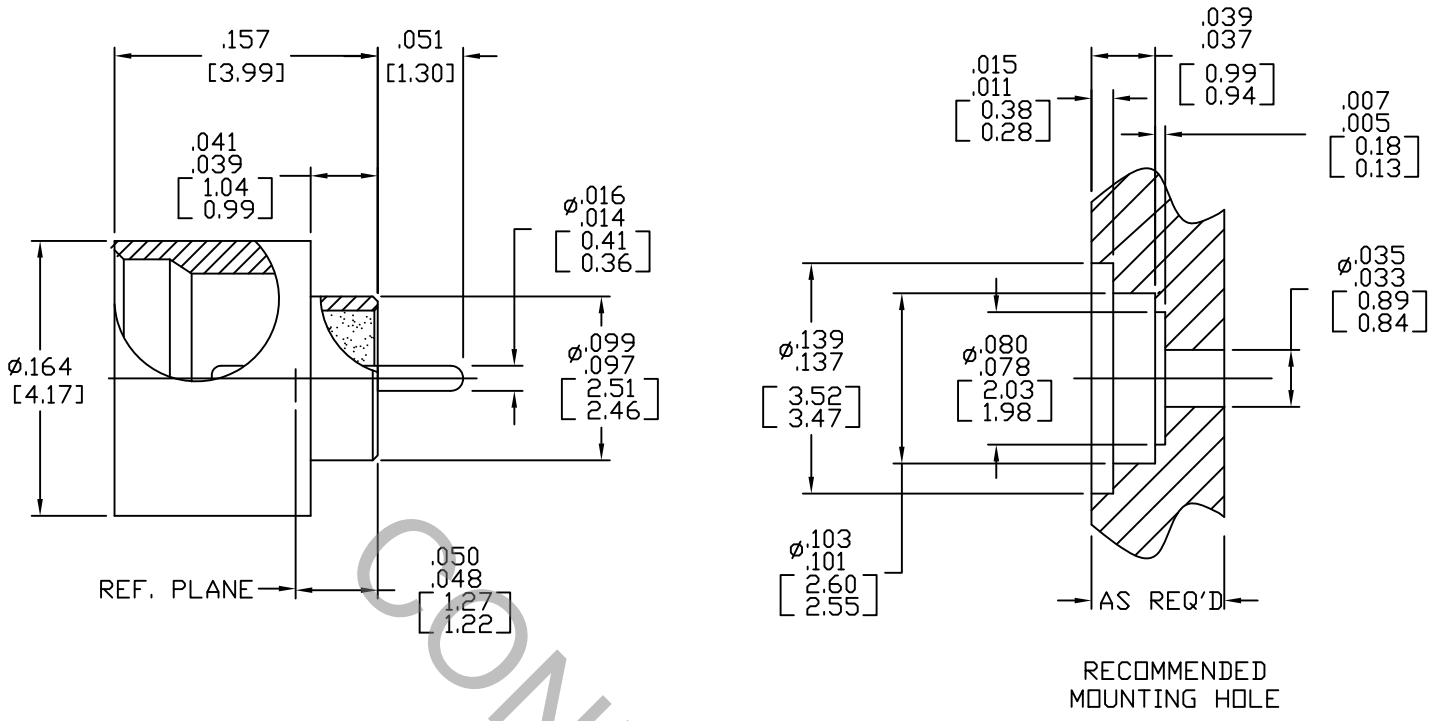
SPECIFICATION CONTROL DRAWING



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1. MATING INTERFACE DIMENSIONS PER MIL-STD 348A, Fig. 326.4 (SMP, MALE SMOOTH BORE)

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 39.0 GHz.
VSWR (MAX.) ❋	1.05 + .008 x FGHz.
INSERTION LOSS (dB MAX.) ❋	.045 dB x $\sqrt{\text{FGHz}}$.
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	170
RF LEAKAGE (MIN. dB DOWN)	N/A
TEMPERATURE RATING (DEGREES CENTIGRADE)	−65 ° c TO +165 ° c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	500
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

RoHS COMPLIANT

This Document contains proprietary and confidential information.

REV.	DCN NO.	DATE	APP.
AA	14-1968	8/8/14	TS

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 TS DATE 8/8/14

APPROVED DC DATE 8/8/14

TITLE SMP, MALE
(SMOOTH BORE)
HERMETICALLY SEALED SHROUD
SOLDER MOUNT

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 2149-0434-7408

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

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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.) (125 VRMS)
HERMETICITY ——— 1×10^{-8} cc/SEC.

5. MATERIAL

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

6. FINISH

CONNECTOR BODY AND GLASS PIN ——— GOLD PER ATSM B 488, TYPE 1, CODE C, CLASS 1.25
(.000050 MIN. THK.) OVER NICKEL PER SAE AMS QQ–N–290, CLASS 1
(.000150 MIN. THK.) OVER COPPER PER AMS 2418 (.000010 MIN. THK.).

GLASS ——— N/A