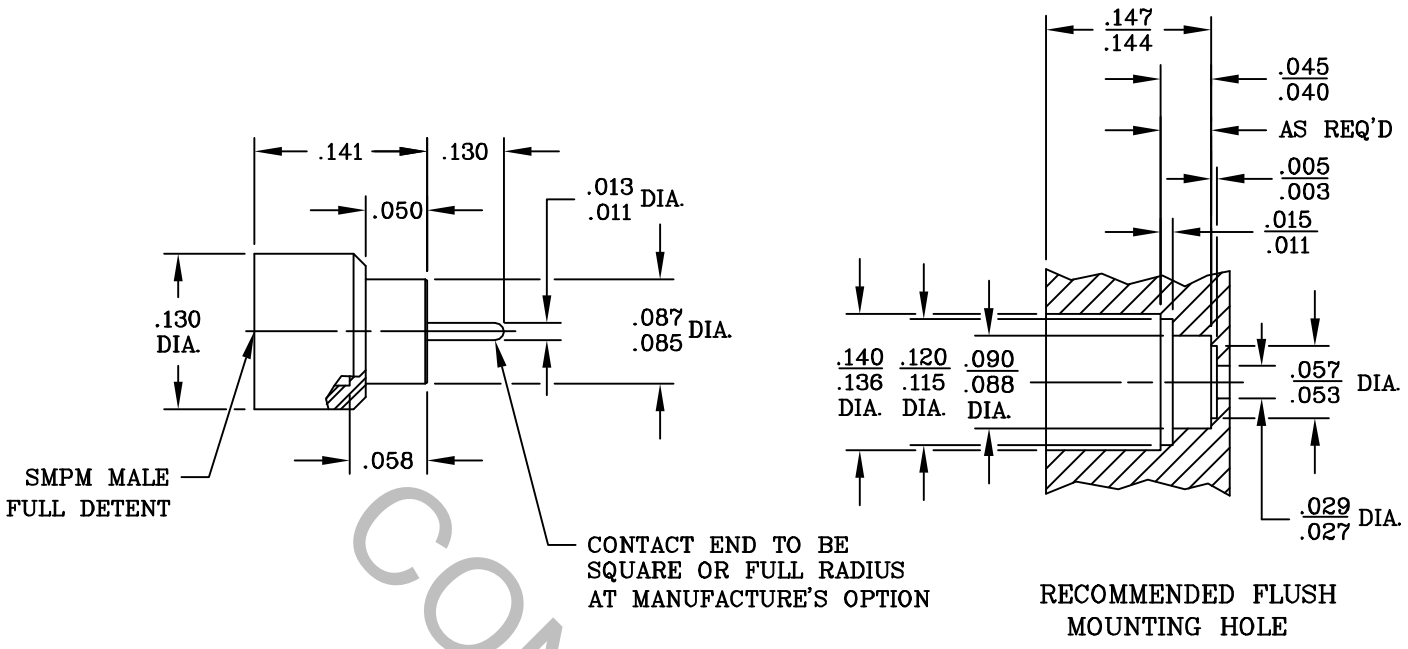
SPECIFICATION CONTROL DRAWING



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1. MATING INTERFACE DIMENSIONS PER MIL-STD 348, FIG 328-2

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	03-1642	5/16/03	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.

DRAWN SS DATE 5/25/04

APPROVED DC DATE 5/25/04

CODE IDENT. 2J899

SHEET 1 OF 2

dynawave INCORPORATED
HAVERHILL, MA. 01835

TITLE SMPM, MALE,
(FULL DETENT)
HERMETICALLY SEALED SHROUD,
SOLDER-IN

DWG. NO. 3140-0434-7404

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) ——— 4.5 LBS.
- WITHDRAWAL (MIN. OUNCES) ——— 6.5 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 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