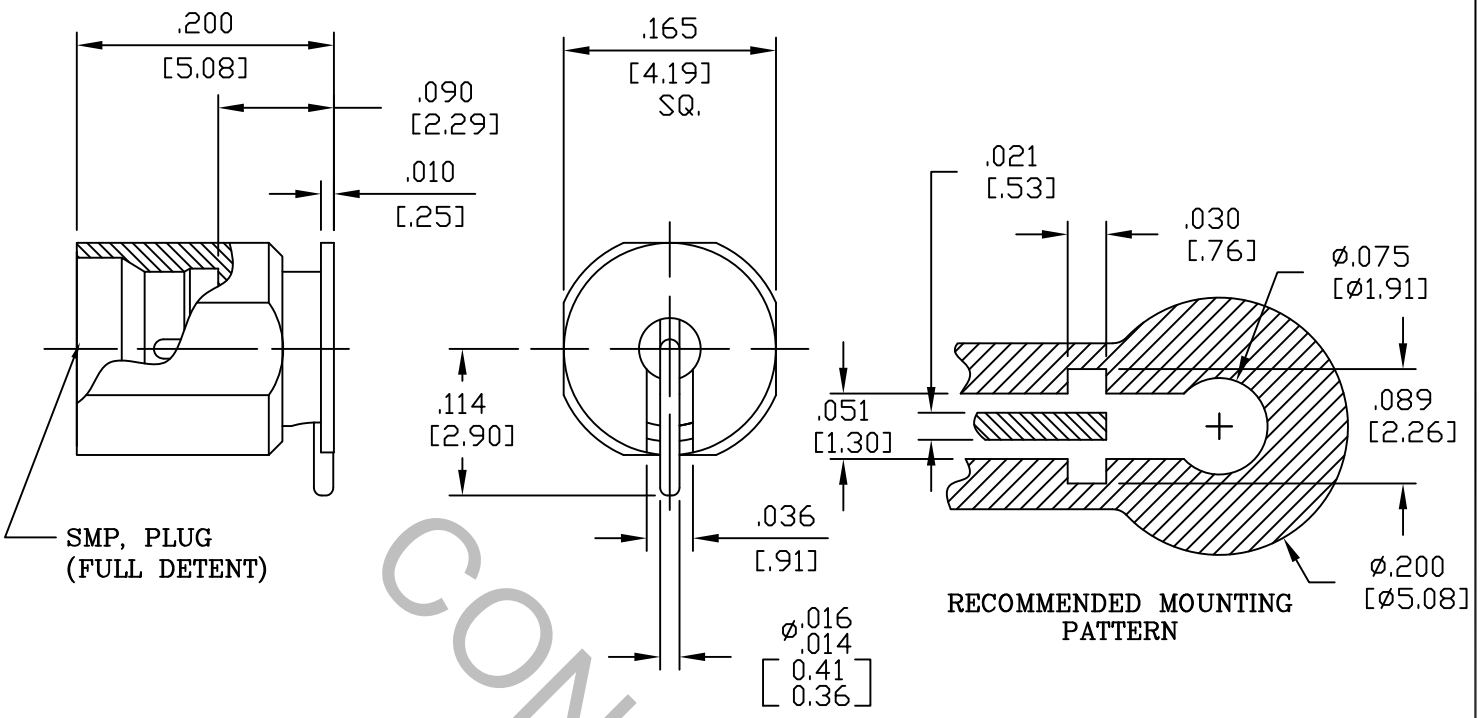
SPECIFICATION CONTROL DRAWING



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1. MATING INTERFACE DIMENSIONS MIL-STD-348 Fig. 326.2 (SMP, PLUG, FULL DETENT).

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 18.0 GHz
VSWR (MAX.) ❋	1.12 + .010 x FGHz
INSERTION LOSS (dB MAX.) ❋	.05 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)	3.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

❋ TERMINATED IN A 50 OHM LOAD

RoHS
COMPLIANT

REV.	DCN NO.	DATE	APP.
AA	11-1010	1/5/11	TS
AB	11-1524	6/14/11	TS

DIMENSIONS ARE IN INCHES
TOLERANCES
DECIMALS: .X ±.030, .XX ±.010, .XXX ±.005
FRACTIONAL: ±1/64
ANGULAR: X °±1 °0', X ° X' ±15'

dynawave INCORPORATED
HAVERHILL, MA 01835

DRAWN TS DATE 1/5/11

APPROVED DC DATE 1/5/11

TITLE SMP, PLUG (FULL DETENT) PC BOARD SURFACE MOUNT

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 2120-0031-6408

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT
- MAX AXIAL FORCE — N/A
- MAX. RADIAL TORQUE — N/A

CENTER CONTACT AXIAL FORCES
- INSERTION (MAX. OUNCES) — N/A
- WITHDRAWAL (MIN. OUNCES) — N/A

CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. IN. LBS.) — 15.0 LBS./5.0 LBS.

CONNECTOR DURABILITY (MIN. CYCLES) — 100

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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)

5. MATERIAL

CONNECTOR BASE AND SHROUD	STAINLESS STEEL PER ASTM 581, TYPE 303, COND. A
CONTACT	BERYLLIUM COPPER PER ASTM B196/B, 196M–03, COPPER ALLOY No. UNS–C17300, TEMPER TD04.
INSULATOR	TORLON (POLYAMIDE–IMIDE) PER MIL–P–46179, TYPE 1

6. FINISH

CONNECTOR	GOLD PER ASTM B 488, TYPE II, CODE C, CLASS 1.25 (.000050 MIN. THK) OVER NICKEL PER SAE AMS QQ–N–290, CLASS 1, (.00015 MIN.THK) OVER COPPER PER AMS 2418 (.000010 MIN. THK)
CONTACT	GOLD PER ASTM B 488, TYPE II, CODE C, CLASS 1.25 (.000050 MIN. THK.) OVER NICKEL PER SAE AMS QQ–N–290, CLASS 1, (.000050 MIN. THK.) OVER COPPER PER AMS 2418, (.000010 MIN. THK.)
INSULATOR	N/A