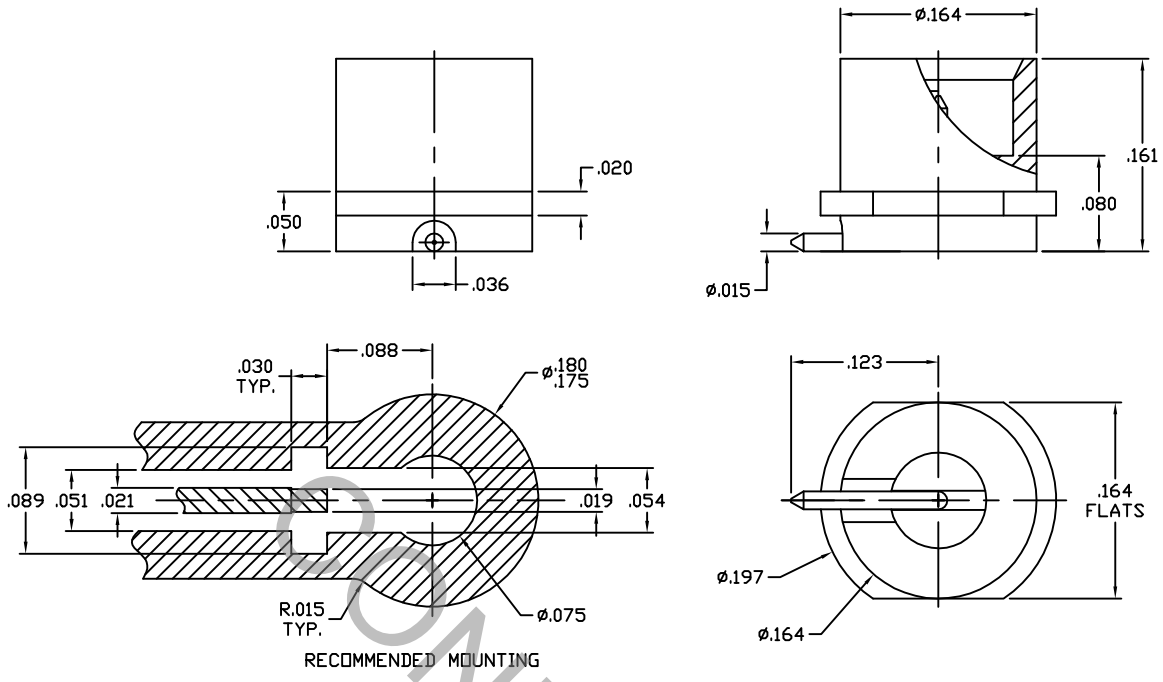
SPECIFICATION CONTROL DRAWING



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1. MATING

INTERFACE DIMENSIONS PER MIL-STD-348 Fig. 326.4

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 18.0 GHz.
VSWR (MAX.) ❋	1.12 + .010 x FGHz.
INSERTION LOSS (dB MAX.)	.05 dB x $\sqrt{FGHz.}$
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

REV.	DCN NO.	DATE	APP.
AA	05-1643	6/6/05	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 6/6/05

APPROVED DC DATE 6/6/05

TITLE SMP, PLUG
(SMOOTH BORE)
PC BOARD
SURFACE MOUNT

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 2129-0031-6401

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER PIN	
MAX. AXIAL FORCE	N/A
MAX. RADIAL TORQUE	N/A
CONNECTOR FORCES	
● ENGAGEMENT	2.0 LBS. MAX.
● DISENGAGEMENT	.5 LBS. MIN.
CONNECTOR DURABILITY	500

4. ENVIRONMENTAL

TEMPERATURE CYCLING	MIL–STD–202, METHOD 102, COND. C (–65° c TO + 165° 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)

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5. MATERIAL

CONNECTOR BODY	STAINLESS STEEL PER ASTM–A–581, TYPE 303
CONTACT	BERYLLIUM COPPER PER ASTM B196, COPPER ALLOY NO. UNS C17300.
INSULATOR	TORLON PER MIL–P–46179, TYPE 1

6. FINISH

BODY	GOLD PER ATSM–B–488, TYPE 1, CODE C, CLASS 1.25 (.000050 MIN. THK.) OVER NICKEL PER QQ–N–290 (.000150 MIN. THK.) OVER NICKEL (WOODS OR WATTS) (.000010 MIN. THK.).
CONTACT	GOLD PER ATSM–B–488, TYPE 1, CODE C, CLASS 2.5 (.000100 MIN. THK.) OVER NICKEL PER QQ–N–290 (.000050 MIN. THK.) OVER COPPER PER MIL–C–14550 (.000010 MIN. THK.).
INSULATOR	N/A