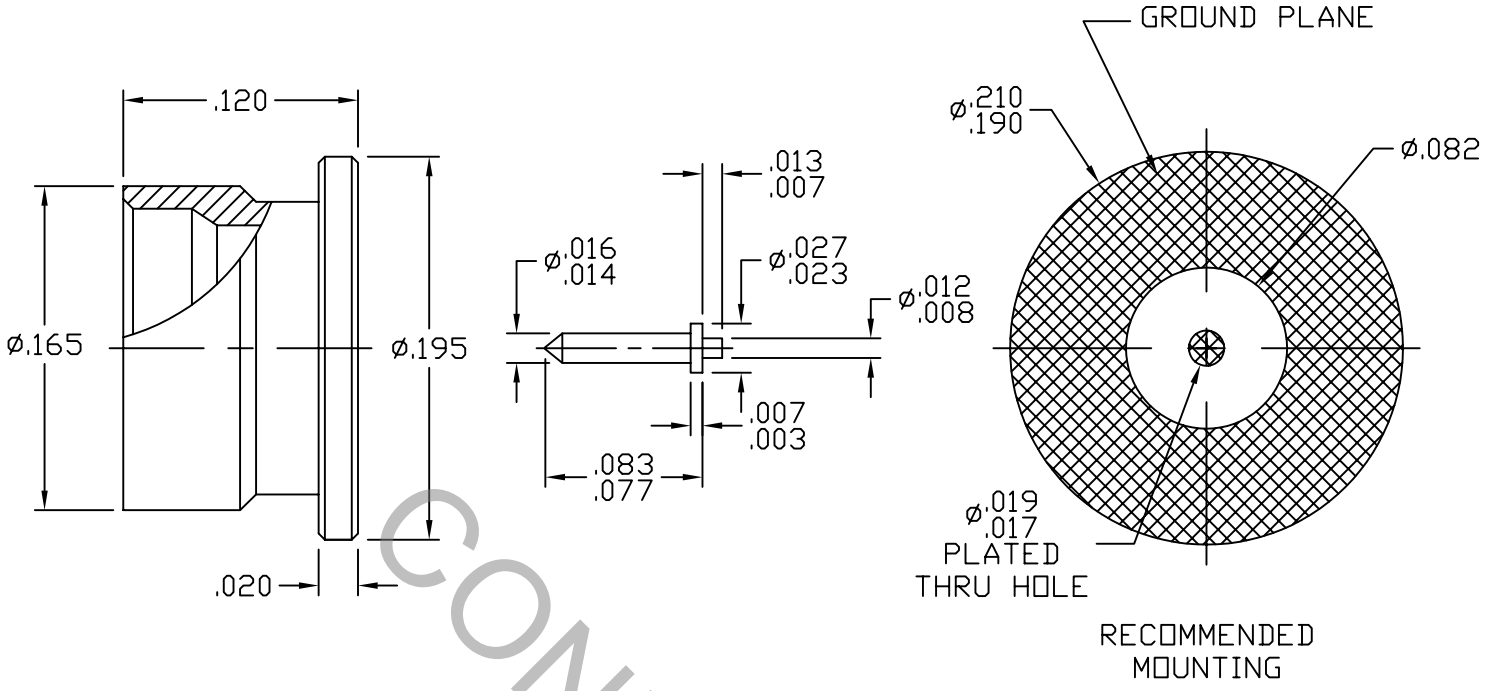
SPECIFICATION CONTROL DRAWING



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

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 12.5 GHz.
VSWR (MAX.) ❋	1.12 + .015 x FGHz.
INSERTION LOSS (dB MAX.)	.05 dB x $\sqrt{\text{FGHz.}}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	167
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)	3.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

❋ TERMINATED IN A 50 OHM LOAD

REV.	DCN NO.	DATE	APP.
AA	07-1795		

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 8/8/07

APPROVED DC DATE 8/8/07

TITLE SMP MALE (FULL DETENT) PC BOARD SURFACE MOUNT

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 2120-0330-6401

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER PIN	
MAX. AXIAL FORCE	N/A
MAX. RADIAL TORQUE	N/A
CONNECTOR FORCES	
● ENGAGEMENT	15.0 LBS. MAX.
● DISENGAGEMENT	5 LBS. MIN.
CONNECTOR DURABILITY	100

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.) (125 VRMS)

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5. MATERIAL

CONNECTOR BODY	STAINLESS STEEL PER ASTM-A-581, TYPE 303, COND. A.
CONTACT	BERYLLIUM COPPER PER ASTM B196/B, 196M-03, COPPER ALLOY No. UNS C17300, TEMPER TD04.

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.).