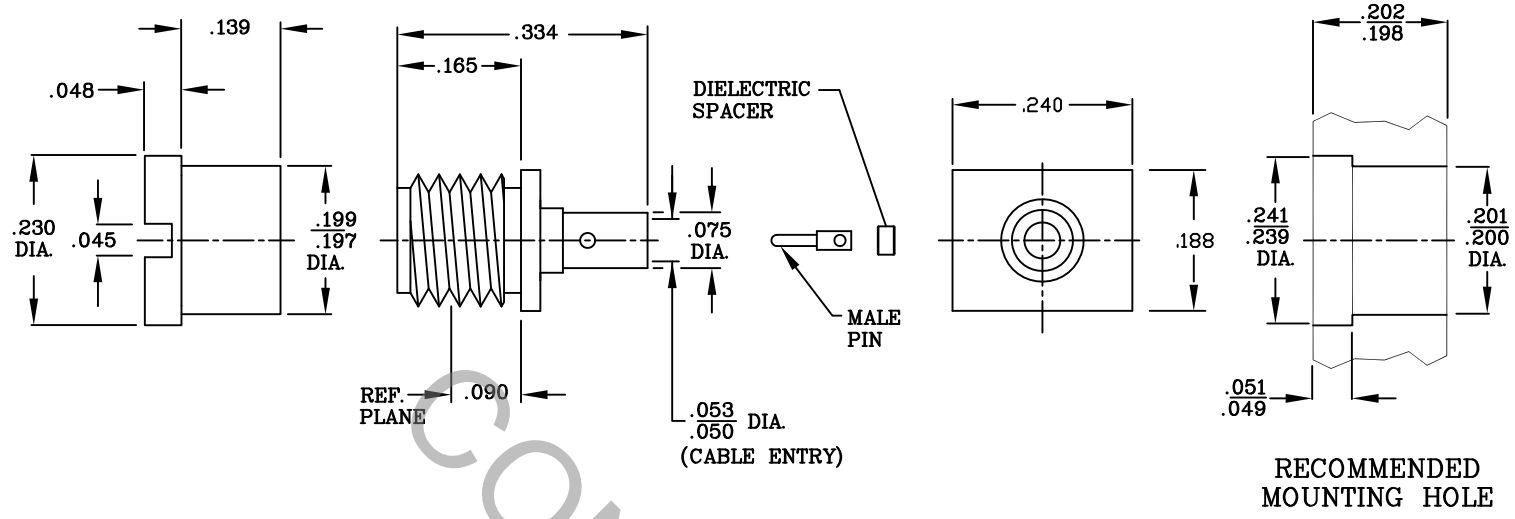
SPECIFICATION CONTROL DRAWING



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1. MATING INTERFACE DIMENSIONS FOR SMP, MALE per MIL-STD-348, Fig. 326-2.

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 26.5 GHz.
VSWR (MAX.) ❋	1.07 + .010 x FGHz.
INSERTION LOSS (dB MAX.) ❋	.045 dB x $\sqrt{FGHz}$.
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	125
RF LEAKAGE (MIN. dB DOWN)	100 dB – FGHz.
TEMPERATURE RATING (DEGREES CENTIGRADE)	−65° c TO +150° c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	375
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

RoHS COMPLIANT

REV.	DCN NO.	DATE	APP.
AA	09-1882	11/19/09	DC
AB	09-1889	11/24/09	TS

DIMENSIONS ARE IN INCHES
TOLERANCES
DECIMALS: .X ±.030, .XX ±.010, .XXX ±.005
FRACTIONAL: ±1/64
ANGULAR: X° ±1°0', X°X' ±15'
SURFACE ROUGHNESS 63 √ MIL-STD 10.

dynawave INCORPORATED
HAVERHILL, MA. 01835

DRAWN SS DATE 11/19/09

APPROVED DC DATE 11/19/09

TITLE: SMP, MALE BULKHEAD MOUNT TO .047 DIA. S/R CABLE (FULL DETENT)

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 2110-4725-6203

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT	
• MIN. AXIAL FORCE	N/A
• MIN. RADIAL TORQUE	N/A
CENTER CONTACT AXIAL FORCES	
• INSERTION (MAX. OUNCES)	N/A
• WITHDRAWAL (MIN. OUNCES)	N/A
CONNECTOR MATING FORCES	
• ENGAGEMENT	15.0 LBS. MAX. (FULL DETENT)
• DISENGAGEMENT	5.0 LBS. MIN. (FULL DETENT)
CONNECTOR DURABILITY (MIN. CYCLES)	250
• ASSEMBLY TORQUE OF BODIES	6.0 TO 8.0 IN./LBS.

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.) (95 VRMS)

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5. MATERIAL

CONNECTOR BODY, (2)	STAINLESS STEEL PER ASTM A 582, TYPE 303, COND. A.
CENTER CONTACT	BERYLLIUM COPPER PER ASTM B 196/B, 196M–03, COPPER ALLOY No. UNS C 17300, TEMPER TD04
INSULATOR	TEFLON PER ASTM D 1710–02, TYPE 1, GRADE 1, CLASS B.

6. FINISH

CONNECTOR BODY, (INTERFACE)	PASSIVATE PER AMS QQ–P–35, TYPE 2
CONNECTOR BODY, (CABLE END)	GOLD PER ASTM B 488, TYPE 1, CODE C, CLASS 1.25 (.000050 MIN. THK.) OVER NICKEL PER QQ–N–290, CLASS 1 (.000150 MIN. THK.) OVER NICKEL (WOODS OR WATTS), (.000010 MIN. THK.).
CENTER CONTACT	GOLD PER ASTM B 488, TYPE 1, CODE C, CLASS 2.5 (.00010 MIN. THK.) OVER NICKEL PER QQ–N–290, (.000050 MIN. THK.) OVER COPPER PER MIL–C–14550 (.000010 MIN. THK.) .
INSULATOR	N/A