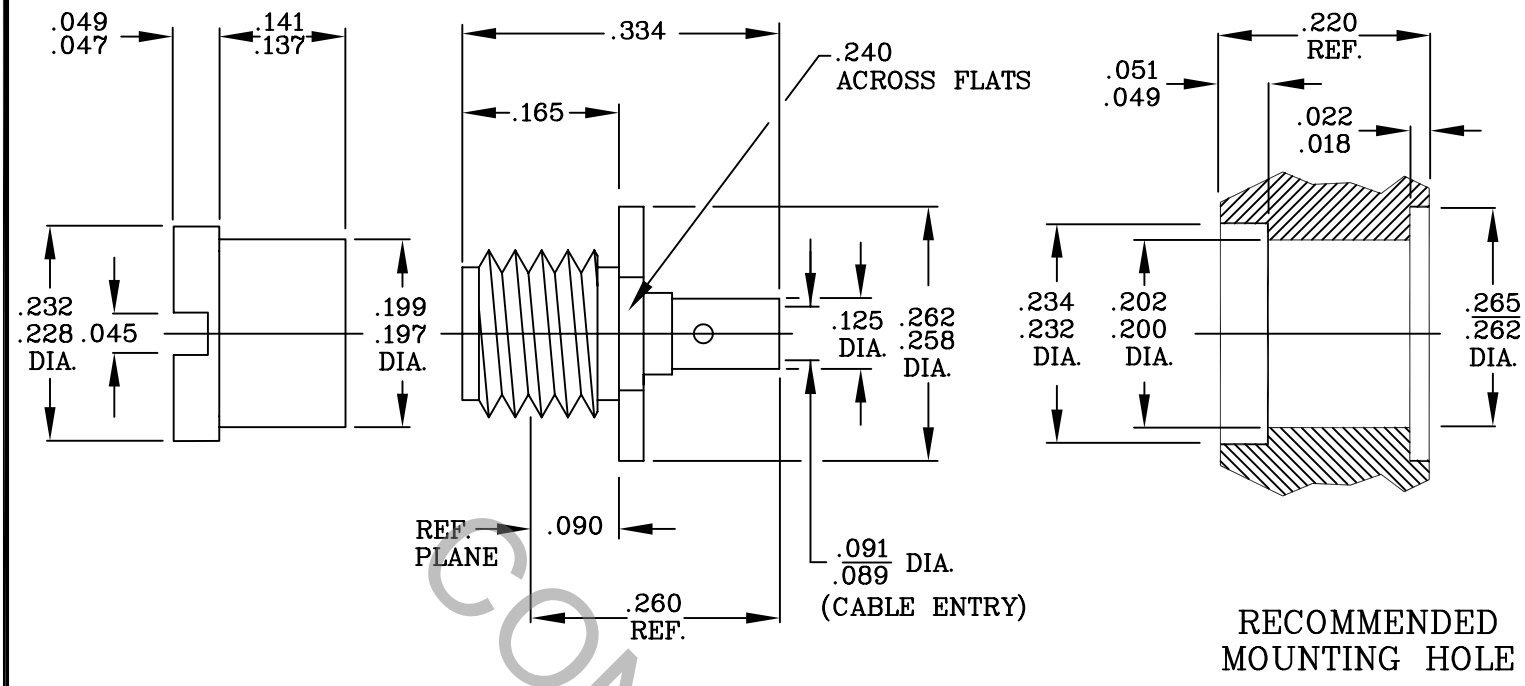
SPECIFICATION CONTROL DRAWING



CONFIDENTIAL

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

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 18.0 GHz.
VSWR (MAX.) ❋	1.07 + .010 x FGHz.
INSERTION LOSS (dB MAX.) ❋	.045 dB x $\sqrt{\text{FGHz.}}$
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

REV.	DCN NO.	DATE	APP.
AA	06-1349	3/17/06	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 TS DATE 3/17/06

APPROVED DC DATE 3/17/06

TITLE SMP, MALE
BULKHEAD MOUNT
TO .085 DIA. S/R CABLE
(FULL DETENT)

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 2110-8520-6205

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.

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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)

5. MATERIAL

CONNECTOR BODY, (2)	STAINLESS STEEL PER ASTM A 582, TYPE 303, COND. A.
CENTER CONTACT	BERYLLIUM COPPER PER ASTM B 196, COPPER ALLOY UNS C17300.
INSULATOR	TEFLON PER ASTM D 4894–91

6. FINISH

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