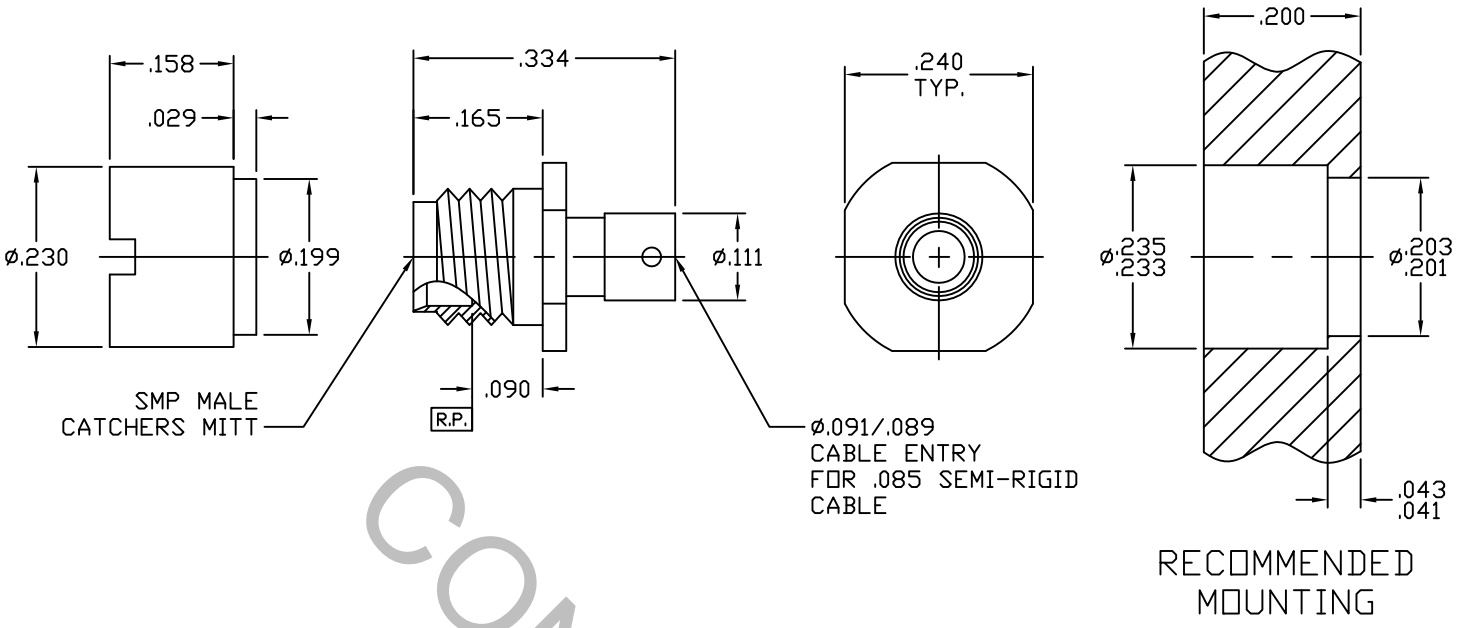
SPECIFICATION CONTROL DRAWING



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1. MATING

INTERFACE DIMENSIONS PER MIL-STD-348A, FIG. 326-5
(SMP, PLUG, SMOOTH BORE, CATCHERS MITT)

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 26.5 GHz
VSWR (MAX.) ❋	1.05 + .010 x FGHz.
INSERTION LOSS (dB MAX.) ❋	.04 dB x $\sqrt{\text{FGHz}}$.
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	190
RF LEAKAGE (MIN. dB DOWN)	85 dB - FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	-65° c TO +150° 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

RoHS
COMPLIANT

This Document contains proprietary and confidential information.

REV.	DCN NO.	DATE	APP.
AA	04-1705	6/1/04	TS
AB	07-1516	5/14/07	DC
AC	12-2152	11/20/12	TS
AD	13-1700	5/9/13	TS
AE	13-2306	9/26/13	DC
AF	14-1305	3/14/14	TS
AG	14-1332	3/19/14	TS

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.

DRAWN TS DATE 6/1/04

APPROVED DC DATE 6/1/04

CODE IDENT. 2J899

SHEET 1 OF 2

dynawave INCORPORATED
HAVERHILL MA. 01835

TITLE
SMP MALE
BULKHEAD MOUNT (SBCM)
DIRECT SOLDER TO
Ø.085 S/R CABLE

DWG. NO. 2110-8520-6204

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT

- MIN. AXIAL FORCE — 4.5 LBS.
- MIN. RADIAL TORQUE — N/A

CONNECTOR ENGAGEMENT FORCES

- INSERTION (MAX. OUNCES) — N/A
- WITHDRAWAL (MIN. OUNCES) — N/A

CONNECTOR DURABILITY (MIN. MATING) — 500

- ASSEMBLY TORQUE OF BODIES — 6.0 TO 8.0 IN./LBS.
- TORQUE HEAD — 9–20231–09

CONNECTOR INSTALLATION / REMOVAL FORCE.

- INSERTION (MAX. LBS) — 2.0
- WITHDRAWAL (MIN. LBS) — 0.5

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

BODY AND SHROUD	STAINLESS STEEL PER ASTM–A–582, TYPE 303, COND. A
CONTACT	BERYLLIUM COPPER PER ASTM–B–196/B, 196M–03, COPPER ALLOY No. UNS–C17300, TEMPER TD04.
INSULATOR	TEFLON PER ASTM–D–1710–02, TYPE 1, GRADE 1, CLASS B.

6. FINISH

SHROUD	PASSIVATE PER AMS–2700, TYPE 2, CLASS 4.
BODY	GOLD PER ASTM–B–488, TYPE I, CODE C, CLASS 1.27 (.000050 MIN. THK.) OVER NICKEL PER SAE–AMS–QQ–N–290 CLASS 1 (.000150 MIN. THK.) OVER NICKEL (WOODS OR WATTS) (.000010 MIN. THK.)
CONTACT	GOLD PER ASTM–B–488, TYPE I, CODE C, CLASS 1.27 (.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