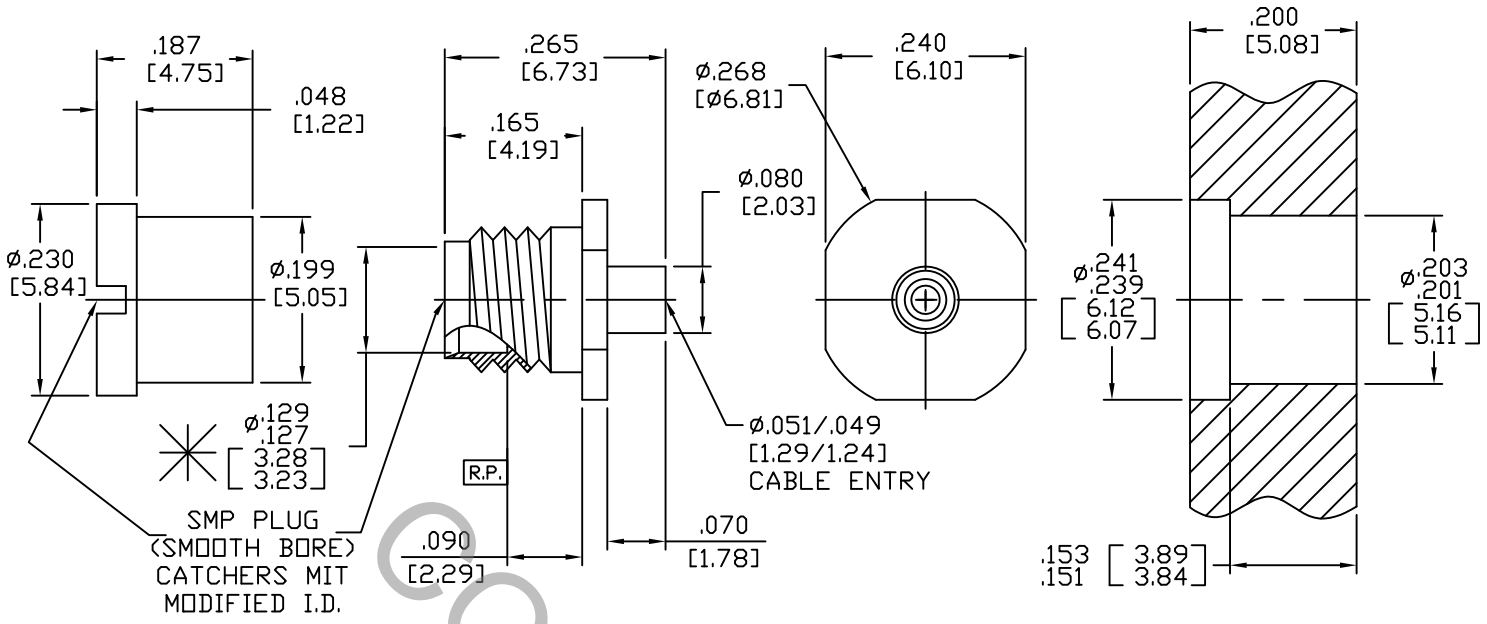
SPECIFICATION CONTROL DRAWING



CONFIDENTIAL

1. MATING

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

✳ MODIFIED INTERFACE INSIDE DIA. TO .129/.127 AS SHOWN.

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)	125
RF LEAKAGE (MIN. dB DOWN)	-85 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	11-1313	4/4/11	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.

dynawave INCORPORATED
HAVERHILL MA. 01835

DRAWN	TS	DATE	4/4/11
APPROVED	DC	DATE	4/4/11

TITLE: SMP MALE (SBCM) BULKHEAD MOUNT DIRECT SOLDER TO Ø.047 S/R CABLE

CODE IDENT.	SHEET 1 OF 2	DWG. NO.
2J899		2119-4721-6207

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) — 1000

CONNECTOR INSTALLATION / REMOVAL FORCE.

- INSERTION (MAX. LBS) — 0.5
- WITHDRAWAL (MIN. LBS) — 0.2

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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.) (94 VRMS)

5. MATERIAL

BODY AND SHROUD	STAINLESS STEEL PER ASTM A 582, TYPE 303, COND A.
CONTACT	BERYLLIUM COPPER PER ASTM B196/B, 196M–03, COPPER ALLOY No. UNS 17300, TEMPER TD04.
INSULATOR	TEFLON PER D 1710–02, TYPE 1, GRADE 1, CLASS B.
REAR INSULATOR	TORLON 4023

6. FINISH

SHROUD	PASSIVATED PER AMS QQ–P–35A, TYPE 2.
BODY AND CONTACT	GOLD PER ASTM–B–488, TYPE I, CODE, CLASS 1.25 (.000050 MIN.) OVER NICKEL PER QQ–N–290, CLASS 1 (.000050 MIN.) OVER COPPER PER MIL–C–14550 (.000010 MIN.)
INSULATORS	N/A