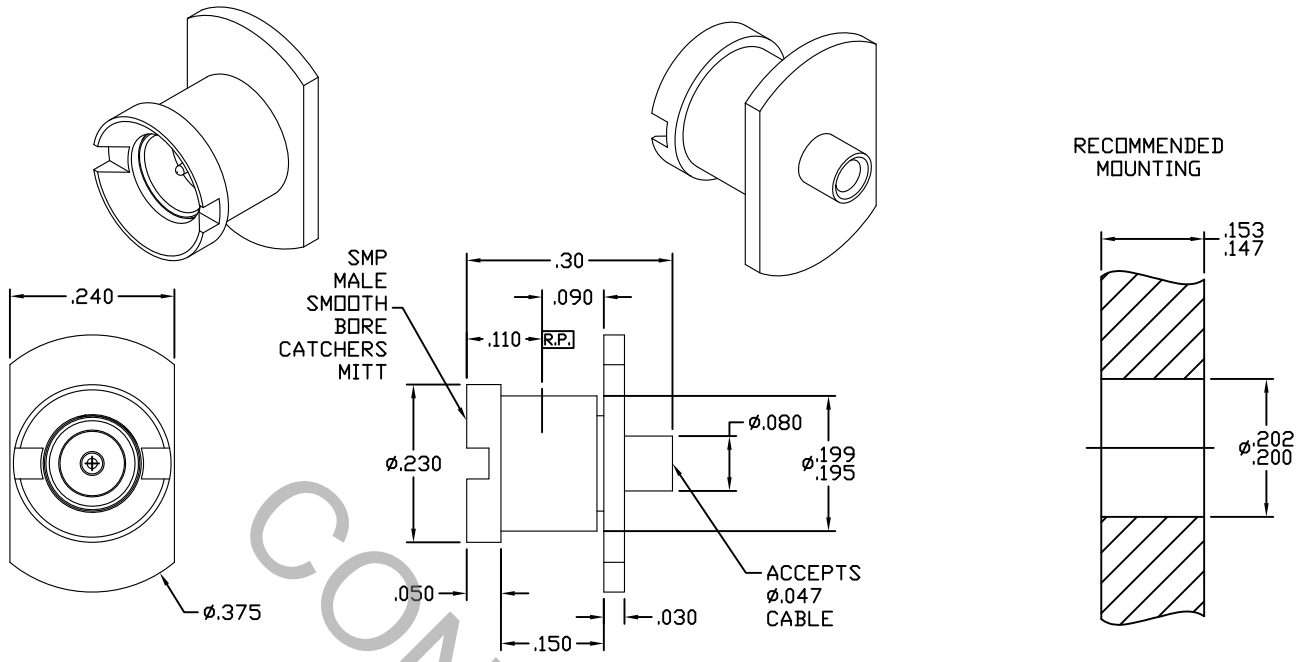
SPECIFICATION CONTROL DRAWING



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1. MATING

INTERFACE DIMENSIONS Per MIL-STD-348 Fig. 326.5 (SMP MALE)
SMOOTH BORE, CATCHERS MITT.

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 26.5 GHz
VSWR (MAX.) ❋	1.06 + .005 x FGHz
INSERTION LOSS (dB MAX.) ❋	.10 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	125
RF LEAKAGE (MIN. dB DOWN)	-83 dB - FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	-65°c TO + 165°c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	375
INSULATION RESISTANCE (MIN. MEGOHMS)	5,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	4.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

❋ TERMINATED IN A 50 OHM LOAD

RoHS
COMPLIANT

REV.	DCN NO.	DATE	APP.
AA	11-1098	1/31/11	DC

DIMENSIONS ARE IN INCHES
TOLERANCES

DECIMALS	FRACTIONAL	ANGULAR
.X ±.030 .XX ±.010 .XXX ±.005	± 1/64	X °±1°0' X ° X' ± 15'

dynawave INCORPORATED
HAVERHILL, MA 01835

DRAWN	DC	DATE	1/31/11
APPROVED	DC	DATE	1/31/11

TITLE SMP MALE (SBCM)
BULKHEAD MOUNT
DIRECT SOLDER TO
ø.047 SEMI-RIGID CABLE

CODE IDENT.	SHEET 1 OF 2	DWG. NO.
2J899		2119-4720-6201

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT
- MAX. AXIAL FORCE — N/A
- MAX. RADIAL TORQUE — N/A

CONNECTOR ENGAGEMENT/DISENGAGEMENT
- INSERTION (MAX. POUNDS) — 2.0
- WITHDRAWAL (MIN. POUNDS) — 0.5

CONNECTOR DURABILITY (MIN. CYCLES) — 1000

RECOMMENDED MOUNTING TORQUE — 6 – 8 IN. LBS.

4. ENVIRONMENTAL

TEMPERATURE CYCLING	MIL–STD–202, METHOD 107, 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)

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5. MATERIAL

BODY & 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.
SPACER INSULATOR	TORLON 4023

6. FINISH

SHROUD	PASSIVATE PER AMS 2700, TYPE 2, CLASS 4.
BODY	GOLD PER ASTM–B–488, TYPE I, CODE C, CLASS 1.25 (.000050 MIN. THK.) OVER NICKEL per QQ–N–290 (.000150 MIN. THK.) OVER WOODS OR WATTS NICKEL (.000010 MIN. THK.)
CONTACT	GOLD PER ASTM–B–488, TYPE I, CODE C, CLASS 1.25 (.000050 MIN. THK.) OVER NICKEL per QQ–N–290 (.000050 MIN. THK.) OVER COPPER per MIL–C–14550 (.000010 MIN. THK.)
INSULATORS	N/A