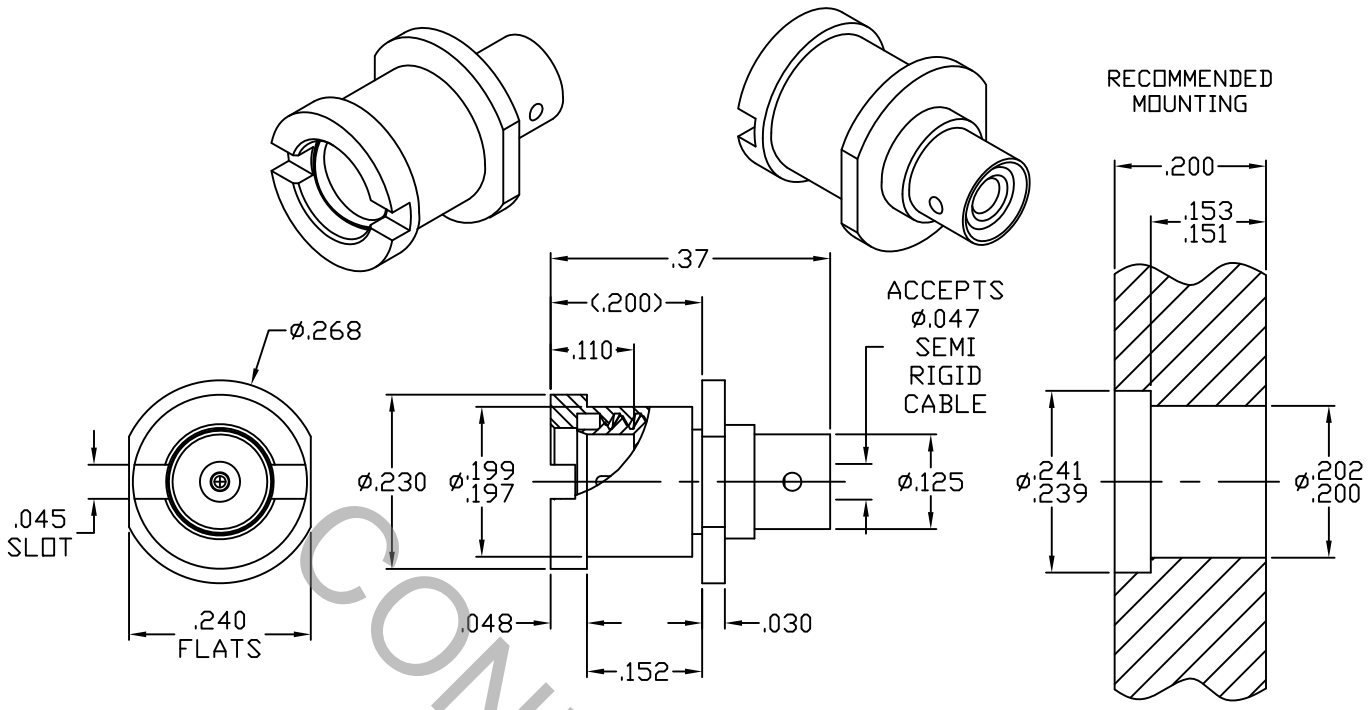
SPECIFICATION CONTROL DRAWING



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1. MATING

INTERFACE DIMENSIONS PER MIL-STD-348A, FIG. 326-4 (SMP, MALE, SMOOTH BORE)

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)	170
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

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REV.	DCN NO.	DATE	APP.
AA	13-1991	7/17/13	DC
AB	15-1453	3/26/15	DC

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 RMS DATE 7/17/13

APPROVED DC DATE 7/17/13

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

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 2119-4725-6200

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT
- MIN. AXIAL FORCE — N/A
- 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) — 2.0
- WITHDRAWAL (MIN. LBS) — 0.5

RECOMMENDED MOUNTING TORQUE — 6 – 8 IN. LBS.

RECOMMENDED TORQUE TOOL — 9–20255–09

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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.) (125 VRMS)

5. MATERIAL

BODY (FULL DETENT), SHROUD & PRESS SLEEVE	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.
INSULATOR	TORLON 4023

6. FINISH

SHROUD	PASSIVATED PER AMS–2700, TYPE 2, CLASS 4
BODY & PRESS SLEEVE	GOLD PER ASTM–B–488, TYPE I, CODE C, CLASS 1.27 (.000050 MIN.) OVER NICKEL PER SAE–AMS–QQ–N–290, CLASS 1 (.000150 MIN.) OVER NICKEL (WOODS OR WATTS), (.000010 MIN.)
CONTACT	GOLD PER ASTM–B–488, TYPE I, CODE C, CLASS 1.27 (.000050 MIN.) OVER NICKEL PER SAE–AMS–QQ–N–290, CLASS 1 (.000050 MIN.) OVER COPPER PER AMS–2418, (.000010 MIN.)
INSULATORS	N/A