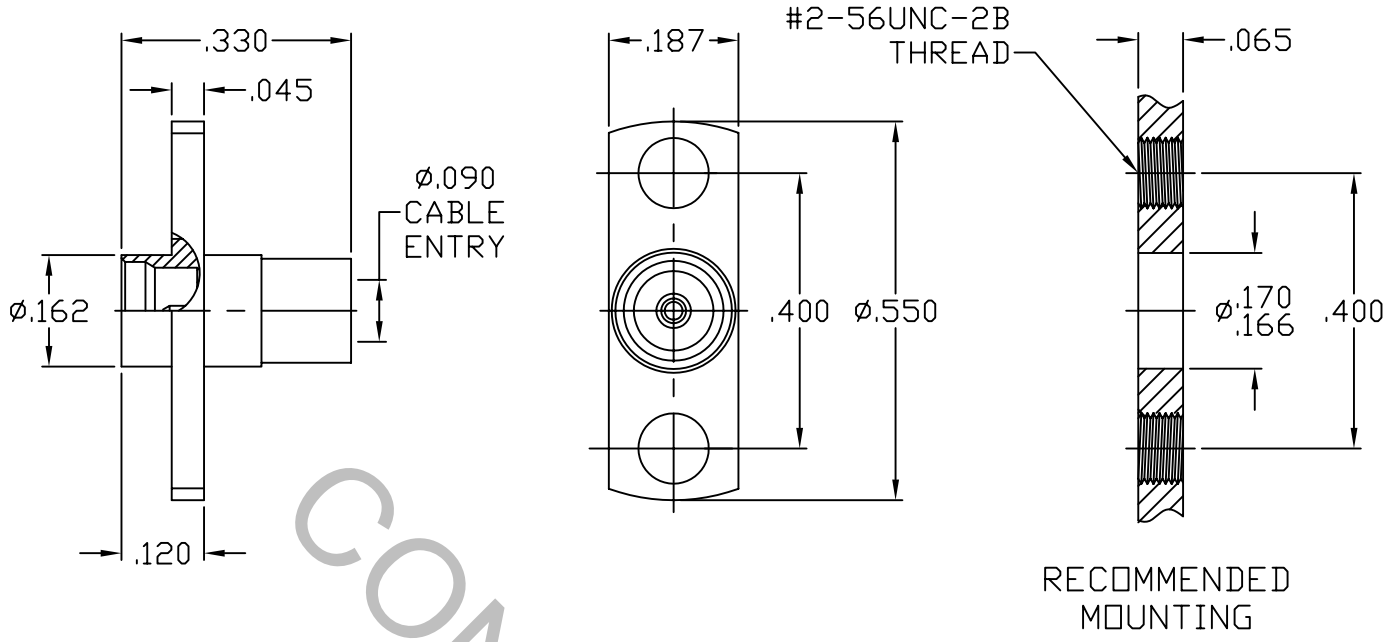
SPECIFICATION CONTROL DRAWING



CONFIDENTIAL

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

REV.	DCN NO.	DATE	APP.
AA	08-1469	4/29/08	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 4/29/08

APPROVED DC DATE 4/29/08

TITLE: SMP MALE (SB)
2 HOLE FLANGE
DIRECT SOLDER TO
Ø.085 S/R CABLE

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 2172-8520-6440

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

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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	STAINLESS STEEL PER ASTM A 581, 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

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.)
INSULATOR	N/A