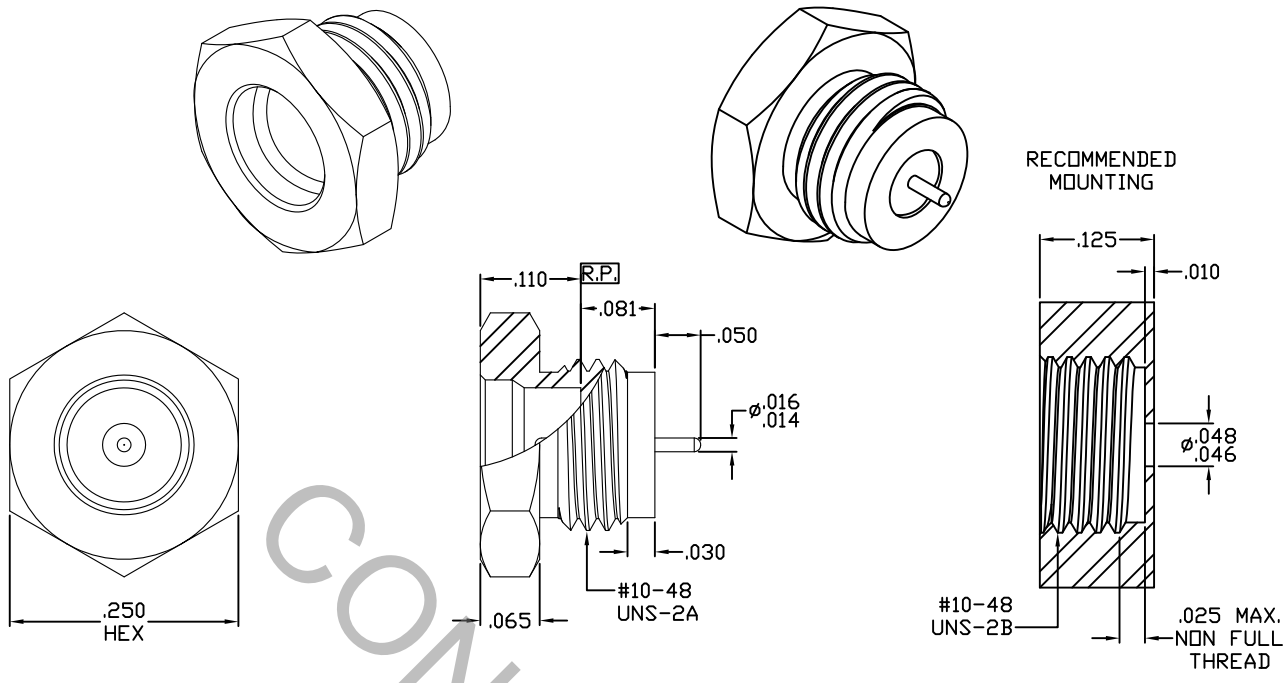
SPECIFICATION CONTROL DRAWING



CONFIDENTIAL

1. MATING

INTERFACE DIMENSIONS Per MIL-STD-348 Fig. 326.4 (SMP MALE) SMOOTH BORE.

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 37.0 GHz
VSWR (MAX.) ❋	1.05 + .006 x FGHz
INSERTION LOSS (dB MAX.) ❋	.10 dB x $\sqrt{FGHz}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	250
RF LEAKAGE (MIN. dB DOWN)	−100 dB − FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	−65°c TO + 165°c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	750
INSULATION RESISTANCE (MIN. MEGOHMS)	5,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	10.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

❋ TERMINATED IN A 50 OHM LOAD

RoHS
COMPLIANT

REV.	DCN NO.	DATE	APP.
AA	09-1371	4/29/09	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 4/29/09

APPROVED DC DATE 4/29/09

TITLE
SMP MALE (SB)
THREAD-IN, HERMETIC
ø.015 PIN TERMINAL

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 2139-0434-6404

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT
- MAX. AXIAL FORCE — 4.0 LBS.
- MAX. RADIAL TORQUE — 2.0 IN.OZS.

CENTER CONTACT AXIAL FORCES
- INSERTION (MAX. OUNCES) — N/A
- WITHDRAWAL (MIN. OUNCES) — N/A

CONNECTOR ENGAGEMENT FORCE (MAX. LBS.) — 5.0

CONNECTOR DISENGAGEMENT FOURCE (MIN. LBS.) — 0.5

CONNECTOR DURABILITY (MIN. CYCLES) — 500

RECOMMENDED MOUNTING TORQUE — 10 – 12 IN. LBS.

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4. ENVIRONMENTAL

THERMAL SHOCK	MIL–STD–202, METHOD 107, COND. B (–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.) (190 VRMS)

5. MATERIAL

BODY	STAINLESS STEEL PER ASTM–A–582, TYPE 303, COND. A
CONTACT	KOVAR PER MIL–I–23011
GLASS	CORNING, 7070

6. FINISH

BODY & CONTACT	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.)
GLASS	N/A