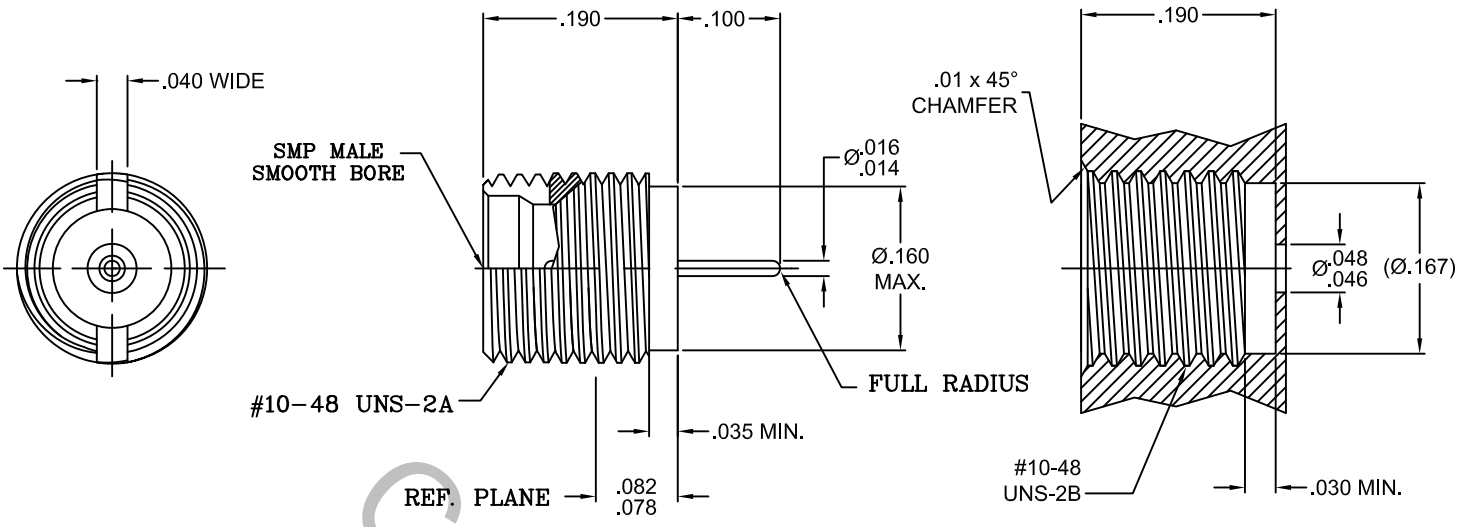
SPECIFICATION CONTROL DRAWING



RECOMMENDED MOUNTING

1. MATING INTERFACE DIMENSIONS PER MIL-STD-348A, Fig. 326.4 (SMP, PLUG, SMOOTH BORE)

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 40 GHz.
VSWR (MAX.) ❋	1.05 + .006 x FGHz.
INSERTION LOSS (dB MAX.)	.04 dB x $\sqrt{\text{FGHz}}$.
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	250
RF LEAKAGE (MIN. dB DOWN)	N/A
TEMPERATURE RATING (DEGREES CENTIGRADE)	-65 ° c TO +165 ° c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	750
INSULATION RESISTANCE (MIN. MEGOHMS)	10,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	6.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

❋ TERMINATED IN A 50 OHM LOAD

RoHS COMPLIANT

REV.	DCN NO.	DATE	APP.
AA	10-1283	3/17/10	TS
AB	13-1067	1/15/13	TS
AC	16-1101	1/26/16	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 TS DATE 3/17/10

APPROVED DC DATE 3/17/10

CODE IDENT. 2J899

SHEET 1 OF 2

TITLE
SMP, THREAD IN SHROUD (SMOOTH BORE) HERMETIC STRAIGHT TERMINAL

DWG. NO. 2139-0430-6401

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT
- MIN. AXIAL FORCE ——— 4.0 LBS
- MIN. RADIAL TORQUE ——— N/A

CONNECTOR ENGAGEMENT FORCES
- INSERTION (MAX. LBS.) ——— 2.0
- WITHDRAWAL (MIN. LBS.) ——— 0.5

CONNECTOR DURABILITY (MIN. MATING) ——— 1,000

RECOMMENDED MOUNTING TORQUE ——— 6 – 8 in./lbs.

RECOMMENDED TORQUE HEAD 9-20164-09 AND 9-98002 TORQUE WRENCH

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 (HIGH FREQUENCY)	MIL–STD–202, METHOD 204, COND. D (20 G's)
VIBRATION (RANDOM)	MIL–STD–202, METHOD 214, TEST COND. F.
THERMAL SHOCK	MIL–STD–202, METHOD 107, TEST COND. B, HIGH TEMP. +165° c.
MOISTURE RESISTANCE	MIL–STD–202, METHOD 106, LESS STEP 7b, 1000 MEGOHMS (5 MINUTES).
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 MIN.)
HERMETIC	1×10^{-8} CC/SEC

5. MATERIAL

CONNECTOR BODY	STAINLESS STEEL PER ASTM A 582, TYPE 303 COND. A
CENTER CONTACT	KOVAR
GLASS	CORNING 7070

6. FINISH

CONNECTOR BODY AND CENTER PIN	GOLD PER ASTM B488, TYPE I, GRADE C, CLASS 1.27 (.000050 MIN. THK.) OVER NICKEL PER SAE–AMS–QQ–N–290 CLASS 1 (.000150 MIN. THK.) OVER NICKEL (WOODS OR WATTS) (.000010 MIN. THK.)
GLASS	N/A