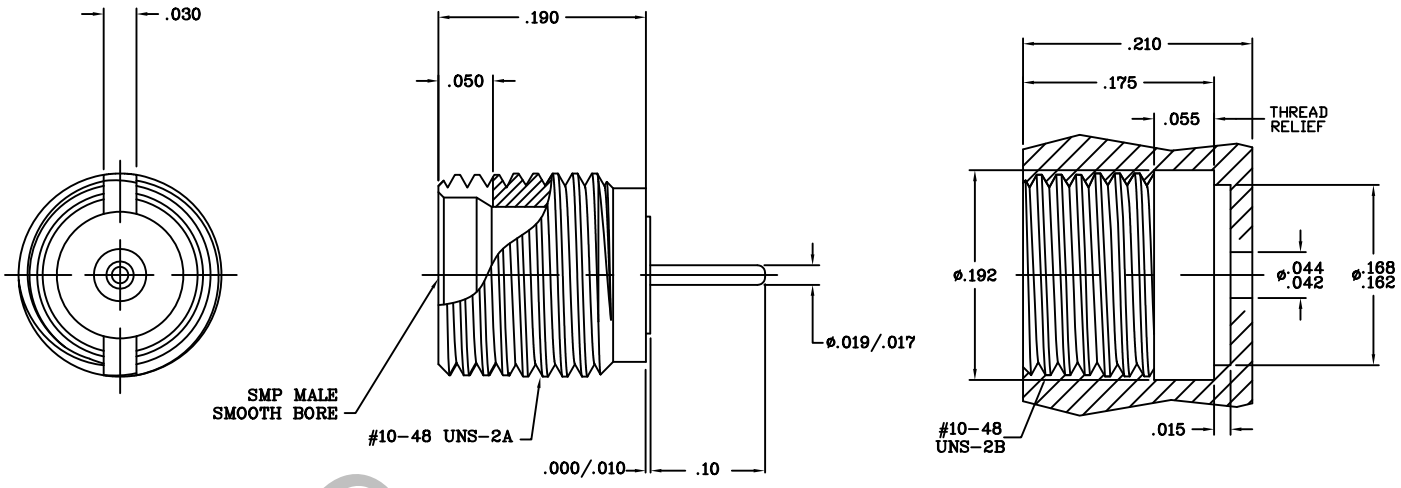
SPECIFICATION CONTROL DRAWING



RECOMMENDED
MOUNTING HOLE

CONFIDENTIAL

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

This Document contains proprietary and confidential information.

RoHS
COMPLIANT

REV.	DCN NO.	DATE	APP.
AA	19-1950	12/18/09	TS
AB	16-1096	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 12/18/09

APPROVED DC DATE 12/18/09

TITLE
SMP, THREAD IN SHROUD
(SMOOTH BORE)
PIN TERMINAL .100 LONG

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 2139-0031-6200

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 (SMOOTH BORE)
- WITHDRAWAL (MIN. LBS.) — 0.5 (SMOOTH BORE)

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

RECOMMENDED MOUNTING TORQUE — 6 – 8 IN. LBS.

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.)

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5. MATERIAL

CONNECTOR BODY AND PRESS SLEEVE	STAINLESS STEEL PER ASTM A 582, TYPE 303, COND. A
CENTER CONTACT	BRASS PER ASTM B16, TEMPER HO2, ALLOY C36000
INSULATOR	TEFLON PER D 1710–02, TYPE 1, GRADE 1, CLASS B.

6. FINISH

CONNECTOR BODY AND PRESS SLEEVE	PASSIVATED PER AMS–2700, TYPE 2, CLASS 4.
CENTER CONTACT	GOLD PER ASTM B 488, TYPE I, CODE C, CLASS 1.27 (.000050 MIN. THK.) OVER NICKEL PER SAE–AMS–QQ–N–290 CLASS 1 (.000050 MIN. THK.) OVER COPPER PER AMS–2418 (.000010 MIN. THK.).
INSULATOR	N/A