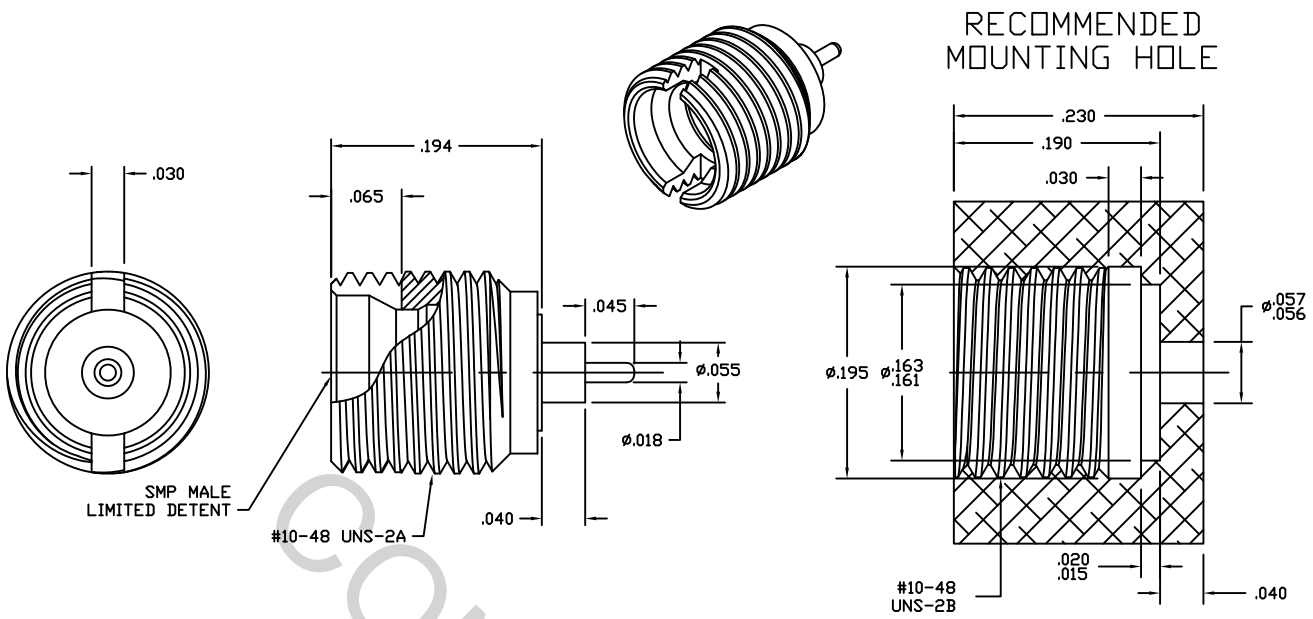
SPECIFICATION CONTROL DRAWING



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1. MATING INTERFACE DIMENSIONS Per MIL-STD-348 FIG. 326-3, SMP (LIMITED DETENT)

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 40.0 GHz
VSWR (MAX.) ❋	1.05 + .006 x FGHz
INSERTION LOSS (dB MAX.) ❋	.045 dB x $\sqrt{\text{FGHz}}$
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)	3.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

❋ TERMINATED IN A 50 OHM LOAD

RoHS COMPLIANT

This Document contains proprietary and confidential information.

REV.	DCN NO.	DATE	APP.
AA	05-1721	07/01/05	DC
AB	08-1913	10/21/08	TS
AC	16-1096	01/26/18	DC
BA	18-2047	9/14/18	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 07/01/05

APPROVED DC DATE 07/01/05

TITLE SMP, MALE
SCREW-IN SHROUD
STRAIGHT TERMINAL
(LIMITED DETENT)

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 2137-0032-6252

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT

MIN. AXIAL FORCE	3.5 LBS.
MIN. RADIAL TORQUE	N/A

CONNECTOR ENGAGEMENT FORCES

● INSERTION (MAX. LBS)	10.0 (LIMITED DETENT)
● WITHDRAWAL (MIN. LBS)	2.0 (LIMITED DETENT)
CONNECTOR DURABILITY (MIN. CYCLES)	500
RECOMMENDED MOUNTING TORQUE	6 – 8 IN. LBS.

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4. ENVIRONMENTAL

TEMPERATURE CYCLING	MIL–STD–202, METHOD 107, 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–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, TYPE 1, GRADE 1, CLASS B.

6. FINISH

BODY	PASSIVATE PER AMS–2700, TYPE 2, CLASS 4.
CONTACT	GOLD PER ASTM–B–488, TYPE II, 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