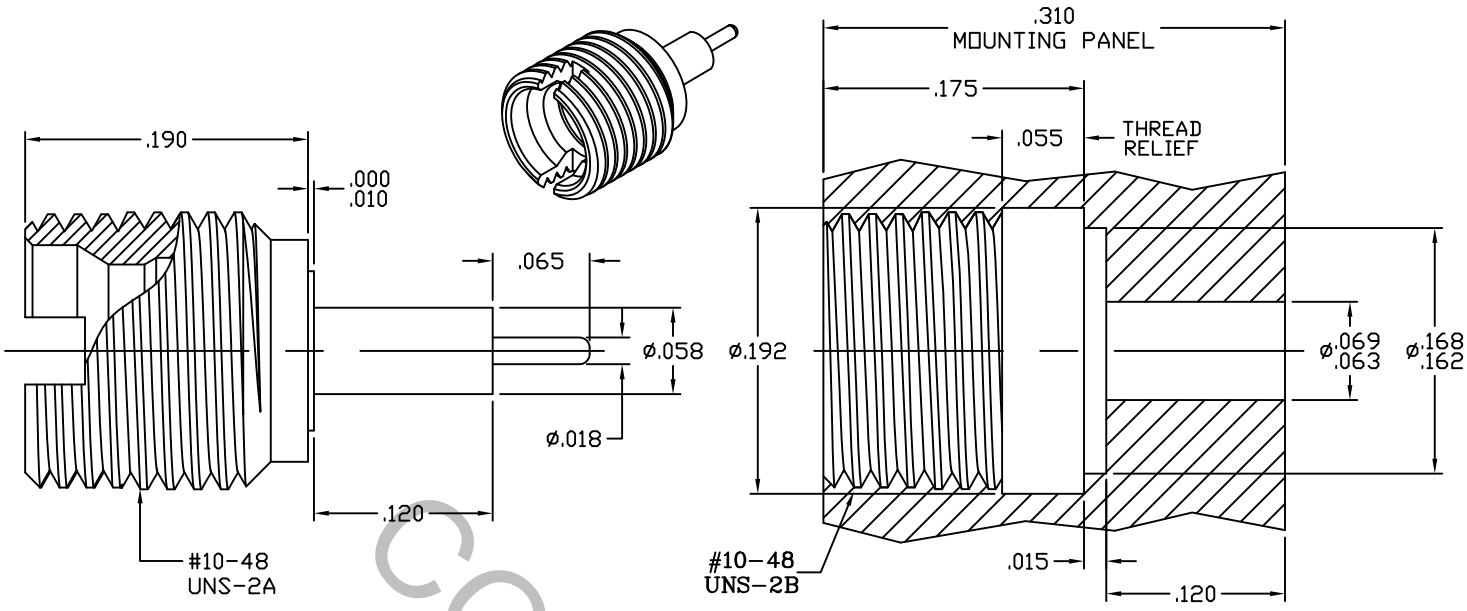
SPECIFICATION CONTROL DRAWING



RECOMMENDED
MOUNTING HOLE

CONFIDENTIAL

1. MATING INTERFACE DIMENSIONS PER DYNAWAVE SPECIFICATION MD-21 AND. MIL-STD-348 FIG 326.2

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

This Document contains proprietary and confidential information.

REV.	DCN NO.	DATE	APP.
AA	07-1491	5/7/07	DC
AB	07-1623	6/20/07	DC
AC	16-1094	1/25/16	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 DC DATE 5/7/07

APPROVED DC DATE 5/7/07

TITLE
SMP, PLUG
THREAD-IN SHROUD
(FULL DETENT)

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 2130-0032-6221

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.) — 15.0 (FULL DETENT)
- WITHDRAWAL (MIN. LBS.) — 5.0 (FULL DETENT)

CONNECTOR DURABILITY (MIN. MATING) — 100 (FULL DETENT)

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 & PRESS SLEEVE	STAINLESS STEEL PER ASTM A 582, TYPE 303 COND. A
CENTER CONTACT	BERYLLIUM COPPER PER ASTM B196/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

CONNECTOR BODY AND PRESS SLEEVE	PASSIVATE PER ASTM–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–90 CLASS 1 (.000050 MIN. THK.) OVER COPPER PER AMS–2418 (.000010 MIN. THK.).
INSULATOR	N/A