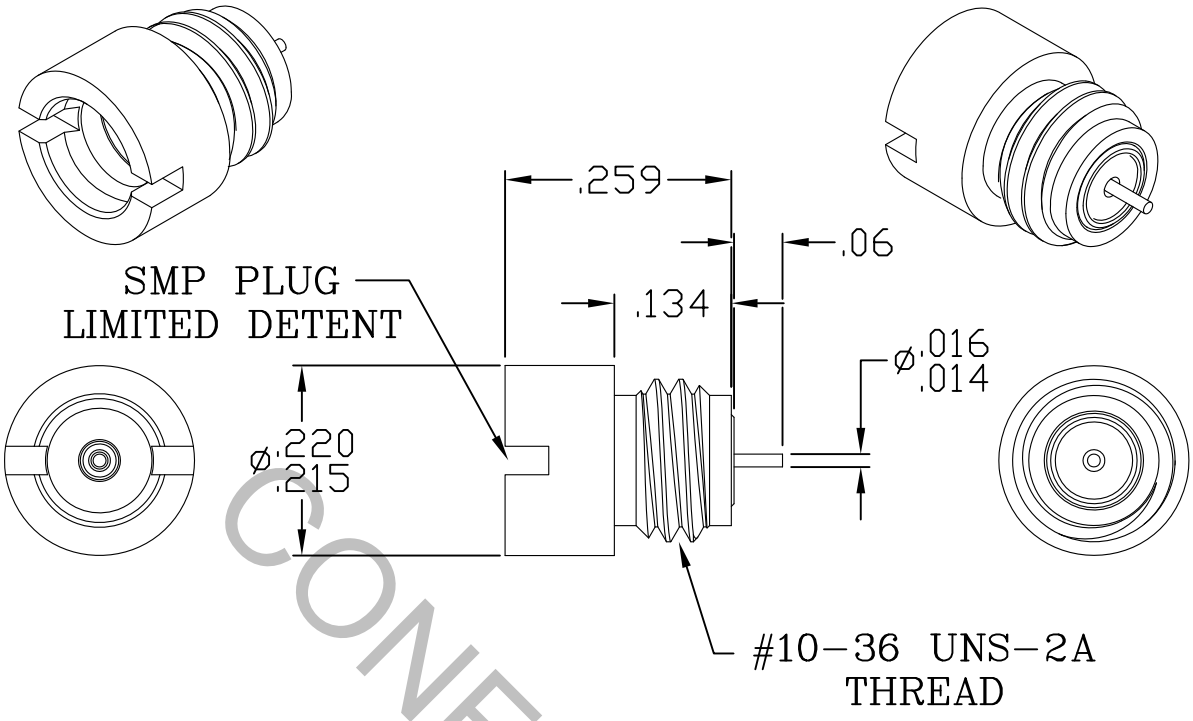
SPECIFICATION CONTROL DRAWING



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1. MATING INTERFACE DIMENSIONS PER MIL-STD-348A, Fig. 326.3 (SMP, PLUG, LIMITED DETENT)

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 26.5 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	07-1350	3/29/07	TS
AB	15-1953	7/8/15	TS
AC	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.

DRAWN TS DATE 3/28/07

APPROVED DC DATE 3/28/07

CODE IDENT. 2J899

SHEET 1 OF 2

dynawave INCORPORATED
HAVERHILL, MA. 01835

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

DWG. NO. 2137-0032-6201

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.)	10.0 (LIMITED DETENT)
• WITHDRAWAL (MIN. LBS.)	2.0 (LIMITED DETENT)
CONNECTOR DURABILITY (MIN. MATING)	250 (LIMITED 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.) (120 VRMS MIN.)

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5. MATERIAL

SHROUD AND SLEEVE	STAINLESS STEEL PER ASTM A 582, TYPE 303, COND. A
CONTACT	BRASS 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

SHROUD AND SLEEVE	PASSIVATED PER AMS–2700, TYPE 2, CLASS 4
CONTACT	GOLD PER ASTM B 488, TYPE I, CODE C, CLASS 1.25 (.000050 MIN. THK.) OVER COPPER PER AMS–2418 (.000040 MIN. THK.)
INSULATOR	N/A