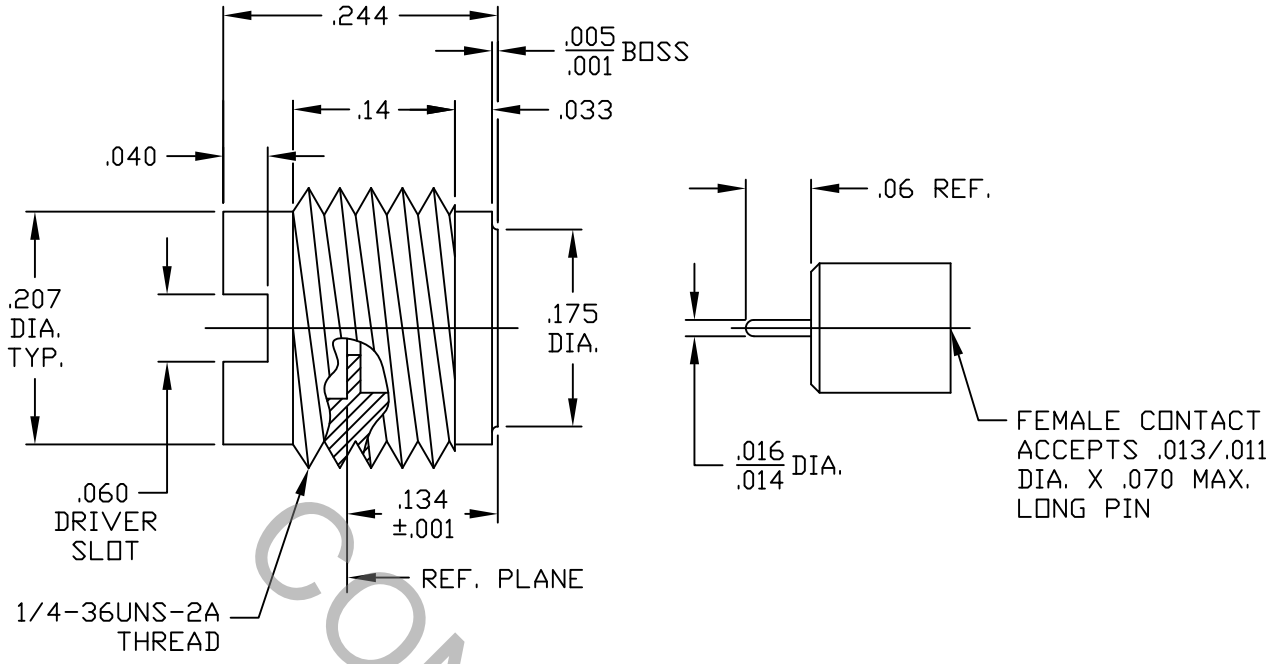
SPECIFICATION CONTROL DRAWING



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1. MATING INTERFACE DIMENSIONS PER MIL-STD 348, Fig. 326-2 (SMP, PLUG, FULL DETENT)

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 18.0 GHz.
VSWR (MAX.) ❋	1.07 + .010 x FGHz.
INSERTION LOSS (dB MAX.)	.045 dB x $\sqrt{FGHz}$.
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	250
RF LEAKAGE (MIN. dB DOWN)	100 dB − FGHz.
TEMPERATURE RATING (DEGREES CENTIGRADE)	−65° c TO +150° c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	500
INSULATION RESISTANCE (MIN. MEGOHMS)	2,500
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	4.5
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

❋ GATED TEST DATA

This Document contains proprietary and confidential information.

RoHS COMPLIANT

REV.	DCN NO.	DATE	APP.
AA	02-0582	6/25/02	DGG
AB	16-1724	6/15/16	TS

DIMENSIONS ARE IN INCHES
TOLERANCES
DECIMALS: .X ±.030, .XX ±.010, .XXX ±.005
FRACTIONAL: ± 1/64
ANGULAR: X° ±°0', X°X ±15'
SURFACE ROUGHNESS 63 √ MIL-STD 10.

dynawave INCORPORATED
HAVERHILL MA. 01830

DRAWN GE DATE 6/24/02

APPROVED DGG DATE 6/25/02

TITLE: SMP, MALE SCREW-IN FULL DETENT

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 2135-0881-6236

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT

- MIN. AXIAL FORCE — 4.5 LBS.
- MIN. RADIAL TORQUE — N/A

CONNECTOR ENGAGEMENT FORCES

- INSERTION (MAX. OUNCES) — N/A
- WITHDRAWAL (MIN. OUNCES) — N/A

CONNECTOR DURABILITY (MIN. MATING) — 100

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	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)

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5. MATERIAL

CONNECTOR BODY	STAINLESS STEEL PER ASTM A 582, TYPE 303, COND. A.
CENTER CONTACT	BERYLLIUM COPPER PER ASTM B 196/B, 196M–03, COPPER ALLOY UNS C17300, TEMPER TD04.
INSULATOR	TEFLON PER ASTM D 1710–02, TYPE 1, GRADE 1, CLASS B.

6. FINISH

CONNECTOR BODY	PASSIVATE PER AMS 2700, TYPE 2, CLASS 4.
CENTER CONTACT	GOLD PER ATSM B 488, TYPE I, CODE C, CLASS 1.25 (.000050 MIN.) OVER NICKEL PER SAE AMS QQ–N–290, CLASS 1 (.000050 MIN.) OVER COPPER PER AMS 2418 (.000010 MIN. THK.)
INSULATOR	N/A