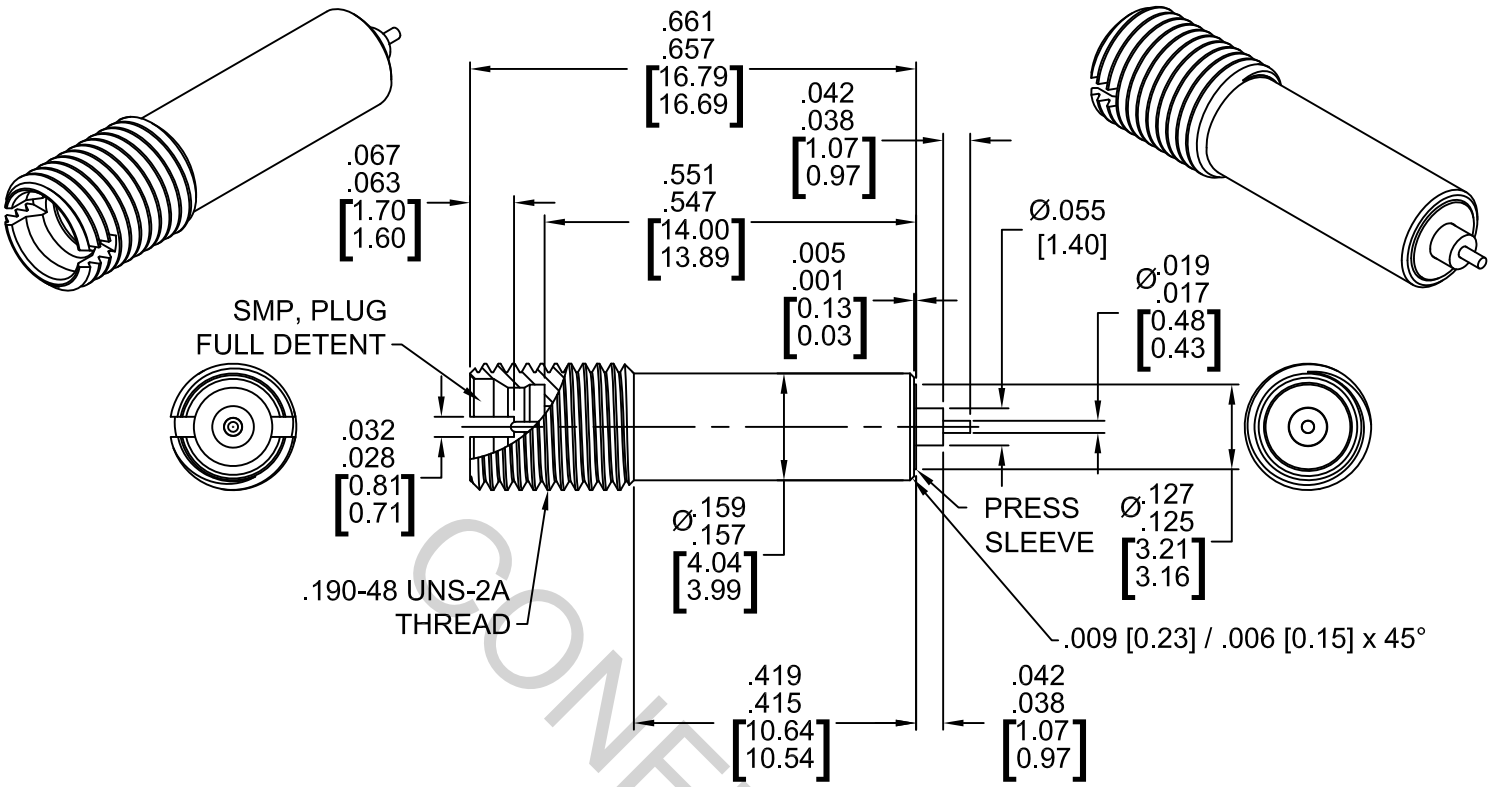
SPECIFICATION CONTROL DRAWING



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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.) ❋	1.10 + .010 x FGHz.
INSERTION LOSS (dB MAX.)	.06 dB x $\sqrt{FGHz.}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	333
RF LEAKAGE (MIN. dB DOWN)	−85dB − FGhz.
TEMPERATURE RATING (DEGREES CENTIGRADE)	−65 ° c TO +165 ° c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	1,000
INSULATION RESISTANCE (MIN. MEGOHMS)	5,000
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.
AB	12-2107	11/13/12	DC
AC	12-2119	11/14/12	DC
AD	12-2144	11/19/12	TS
BA	14-1002	1/2/14	TS
CA	14-1121	1/27/14	DC
CB	14-1387	4/1/14	TS
DA	18-2047	9/14/18	DC

DIMENSIONS ARE IN INCHES
TOLERANCES

DECIMALS	FRACTIONAL	ANGULAR
.X ±.030	±1/64	X ° ±1 °0'
.XX ±.010		X ° X ± 15'
.XXX ±.005		

SURFACE ROUGHNESS 63 √ MIL-STD 10.

dynawave INCORPORATED
HAVERHILL, MA. 01835

DRAWN TS DATE 10/25/12

APPROVED DC DATE 10/25/12

TITLE
SMP, MALE (FD)
THREAD-IN SHROUD
ø.018 PIN TEMINAL

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 2130-0032-6205

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT
- MIN. AXIAL FORCE ——— 4.0 LBS.
- MIN. RADIAL TORQUE ——— 2.0 IN. OZ.

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 INSTALLATION TORQUE ——— 7–8 IN. LBS.

TORQUE HEAD ——— 9–20164–00

TORQUE TOOL ——— 9–96002

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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.) (125 VRMS MIN.)

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 D 1710–02, TYPE 1, GRADE 1, CLASS B.

6. FINISH

CONNECTOR BODY & PRESS SLEEVE	PASSIVATE PER AMS 2700, TYPE 2, CLASS 4.
CENTER 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