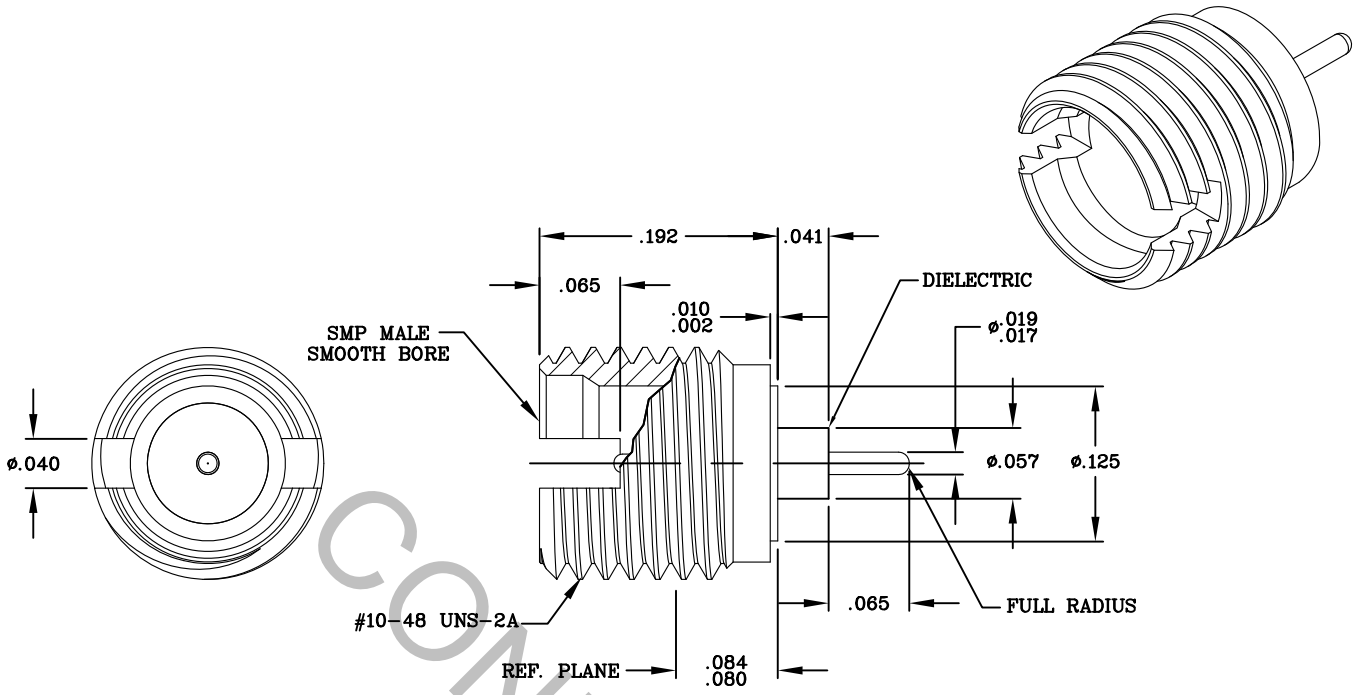
# SPECIFICATION CONTROL DRAWING

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1. MATING INTERFACE DIMENSIONS PER MIL-STD-348A FIG 326.4 (SMP, PLUG, SMOOTH BORE)

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 | 07-1263 | 3/23/07 | TS |
| AB | 14-1081 | 1/22/14 | DC |
| AC | 16-1101 | 1/26/16 | DC |
| | | | |
| | | | |
| | | | |
| | | | |

DIMENSIONS ARE IN INCHES
TOLERANCES

| DECIMALS | FRACTIONAL | ANGULAR |
|---|---|---|
| .X ±.030<br>.XX ±.010<br>.XXX ±.005 | ±1/64 | X °±1 °0'<br>X ° X' ± 15' |

SURFACE ROUGHNESS 63 ✓ MIL-STD 10.

DRAWN TS DATE 3/9/07

APPROVED DC DATE 3/9/07

CODE IDENT. 2J899

SHEET 1 OF 2

dynawave INCORPORATED
HAVERHILL, MA. 01835

TITLE
SMP, THREAD IN SHROUD (SMOOTH BORE) HERMETIC STRAIGHT TERMINAL

DWG. NO. 2139-0434-6402

# 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.) — 2.0 (SMOOTH BORE)
- WITHDRAWAL (MIN. LBS.) — 0.5 (SMOOTH BORE)

CONNECTOR DURABILITY (MIN. MATING) — 1000 (SMOOTH BORE)

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 | STAINLESS STEEL PER ASTM–A–582, TYPE 303, COND. A |
| CENTER CONTACT | KOVAR |
| INSULATOR | TEFLON PER ASTM–D–1710–02, TYPE 1, GRADE 1, CLASS B. |

## 6. FINISH

| | |
|---|---|
| CONNECTOR BODY AND CENTER PIN | GOLD PER ASTM–B–488, TYPE I, CODE C, CLASS 1.27 (.000050 MIN. THK.) OVER NICKEL PER SAE–AMS–QQ–N–290 CLASS 1 (.000150 MIN. THK.) OVER NICKEL (WOODS OR WATTS) (.000010 MIN. THK.) |
| INSULATOR | N/A |