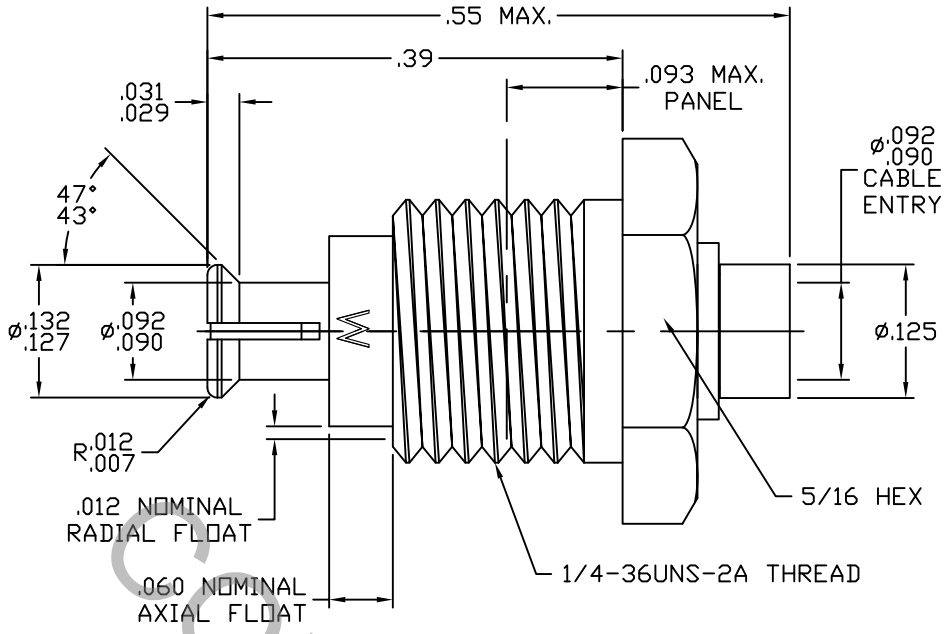
# SPECIFICATION CONTROL DRAWING

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1. MATING INTERFACE DIMENSIONS Per DYNAWAVE SPECIFICATION MD-20-53.

2. ELECTRICAL

| | |
|---|---|
| FREQUENCY RANGE GHz | DC TO 26.5 GHz |
| VSWR (MAX.) ❋ | 1.05 + .010 x FGHz |
| INSERTION LOSS (dB MAX.) ❋ | .045 dB x $\sqrt{\text{FGHz}}$ |
| 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) | 4.0 |
| • 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 | 15-1793 | 5/26/15 | TS |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

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' |

dynawave INCORPORATED
HAVERHILL, MA 01835

| | | | |
|---|---|---|---|
| DRAWN | TS | DATE | 5/26/15 |
| APPROVED | DC | DATE | 5/26/15 |

TITLE: SMP, JACK
FLOAT MOUNT
DIRECT SOLDER TO
ø.085 SEMI-RIGID CABLE

| CODE IDENT. | SHEET 1 OF 2 | DWG. NO. |
|---|---|---|
| 2J899 | | 2060-8520-5423 |

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

CAPTIVATION–CENTER CONTACT
- MAX. AXIAL FORCE — 3.5 LBS.
- MAX. RADIAL TORQUE — N/A

✱ CONNECTOR ENGAGEMENT FORCE
- ● INSERTION (MAX. LBS.) — 4.0
- ● WITHDRAWAL (MIN. LBS.) — 0.5

CONNECTOR DURABILITY (MIN. CYCLES) — 250

CONNECTOR MOUNTING TORQUE — 7 – 10 IN. LBS.

✱ CONNECTOR SPRING FORCE — 6.0 MAX. LBS., 4.0 MIN. LBS.

✱ WHEN MATED TO 2137–0042–6232

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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 | 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 ) |

## 5. MATERIAL

| | |
|---|---|
| FLANGE, PRESS RING, SPRING AND "E" RING | STAINLESS STEEL PER ASTM–A–582, TYPE 303, COND. A |
| BODY AND 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, CLASS B. |

## 6. FINISH

| | |
|---|---|
| FLANGE, PRESS RING, SPRING AND "E" RING | PASSIVATE PER AMS–2700, TYPE 2, CLASS 4 |
| BODY | GOLD PER ASTM B 488, TYPE I, CODE C, CLASS 0.75 (.000030 MIN. THK.) OVER NICKEL per SAE–AMS–QQ–N–290 CLASS 1 (.000050 MIN. THK.) OVER COPPER per AMS–2418 (.000010 MIN. THK.) |
| CONTACT | 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 (.000050 MIN. THK.) OVER COPPER per AMS–2418 (.000010 MIN. THK.) |
| INSULATOR | N/A |