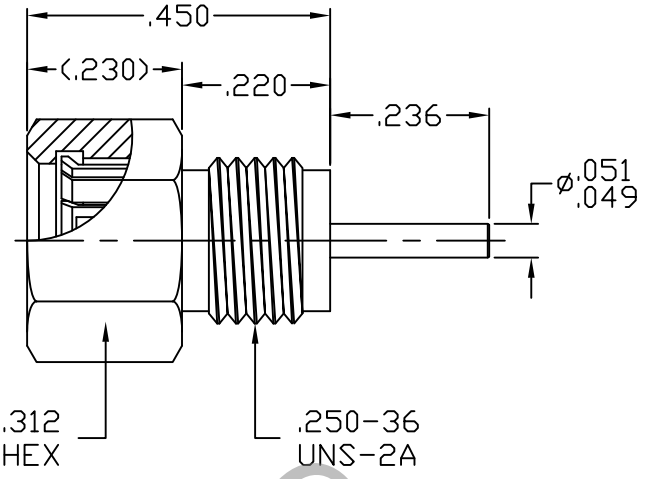
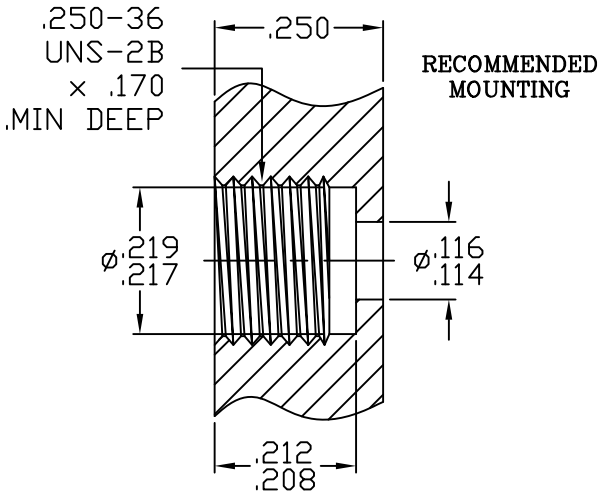
# SPECIFICATION CONTROL DRAWING

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1. MATING INTERFACE DIMENSIONS PER MIL-STD-348A Fig. 321.2 (BMA JACK).

## 2. ELECTRICAL

| | |
|---|---|
| FREQUENCY RANGE GHz | DC TO 20.0 GHz. |
| VSWR (MAX.) ❋ | 1.06 + .010 x FGHz. |
| INSERTION LOSS (dB MAX.) | |
| • DYNAMATE INTERFACE GAP (.000 to .015) | .035 dB x $\sqrt{FGHz}$ |
| • DYNAMATE INTERFACE GAP (.016 to .030) | .050 dB x $\sqrt{FGHz}$ |
| NOMINAL IMPEDANCE (OHMS) | 50 |
| VOLTAGE RATING (MAX. VRMS) | 335 |
| RF LEAKAGE (MIN. dB DOWN) | |
| • DYNAMATE INTERFACE BOTTOMED (.000 GAP) | 100 dB − FGHz |
| • DYNAMATE INTERFACE GAP (.001 to .015) | 90 dB − FGHz |
| • DYNAMATE INTERFACE GAP (.016 to .030) | 75 dB − 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. |
|---|---|---|---|
| AA | 14-1623 | 5/20/14 | 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' |

dynawave INCORPORATED
HAVERHILL, MA 01835

DRAWN DC DATE 5/20/14

APPROVED DC DATE 5/20/14

TITLE
BMA FEMALE, THREAD IN STRAIGHT TERMINAL

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 6730-0031-6202

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

CAPTIVATION–CENTER CONTACT

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

DYNAMATE ENGAGEMENT FORCES

- INSERTION (MAX. OUNCES) ——— 48.0
- WITHDRAWAL (MIN. OUNCES) ——— 2.0

DYNAMATE DURABILITY (MIN. MATING) ——— 1000

RECOMMENDED MATING FORCES

- MIC PACKAGE (TORQUE) ——— 20–24 IN. LBS.
- PLUG CONNECTOR – INSERTION FORCE ——— 3.0 LBS. MAXIMUM

## 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. ) ( 190 VRMS ) |

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## 5. MATERIAL

| | |
|---|---|
| CONNECTOR BODY | STAINLESS STEEL PER ASTM–A–582, TYPE 303, COND. A |
| CENTER CONTACT AND SPRING FINGERS | BERYLLIUM COPPER PER ASTM–B–196/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

| | |
|---|---|
| CONNECTOR BODY | PASSIVATE PER AMS–2700, TYPE 2, CLASS 4. |
| CENTER CONTACT AND SPRING FINGERS | 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 |

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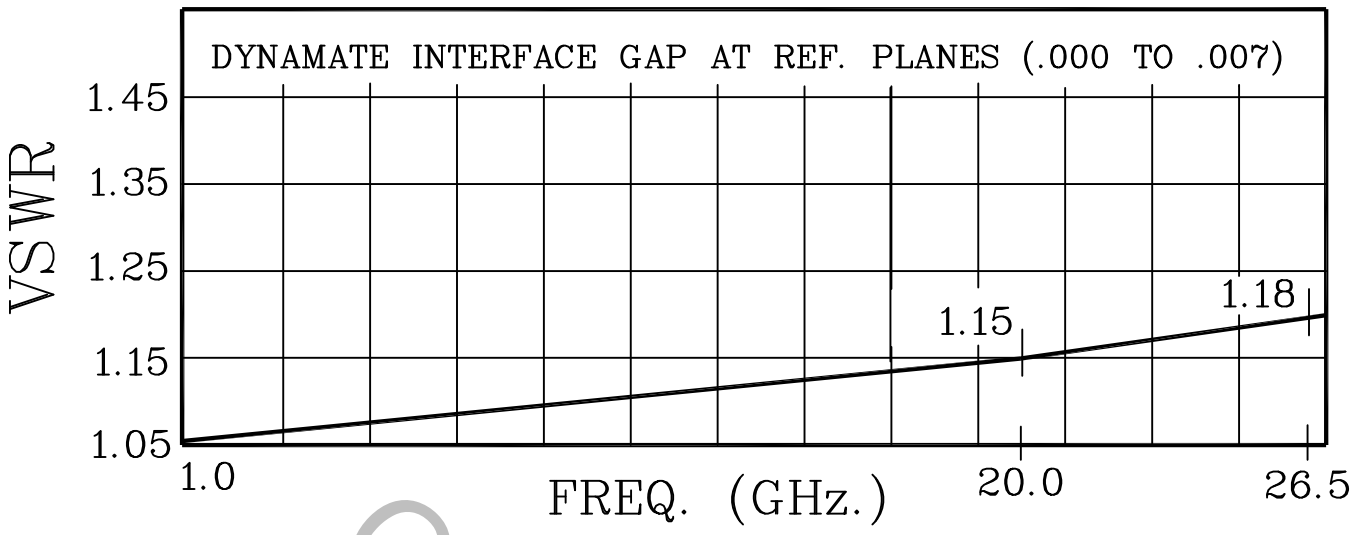


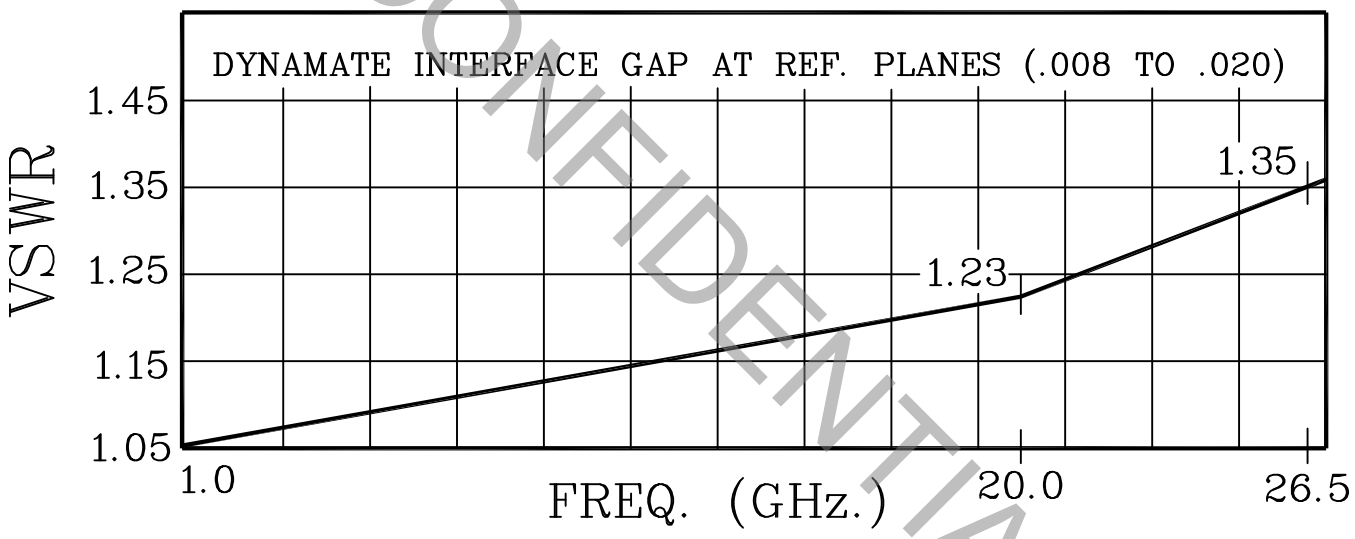


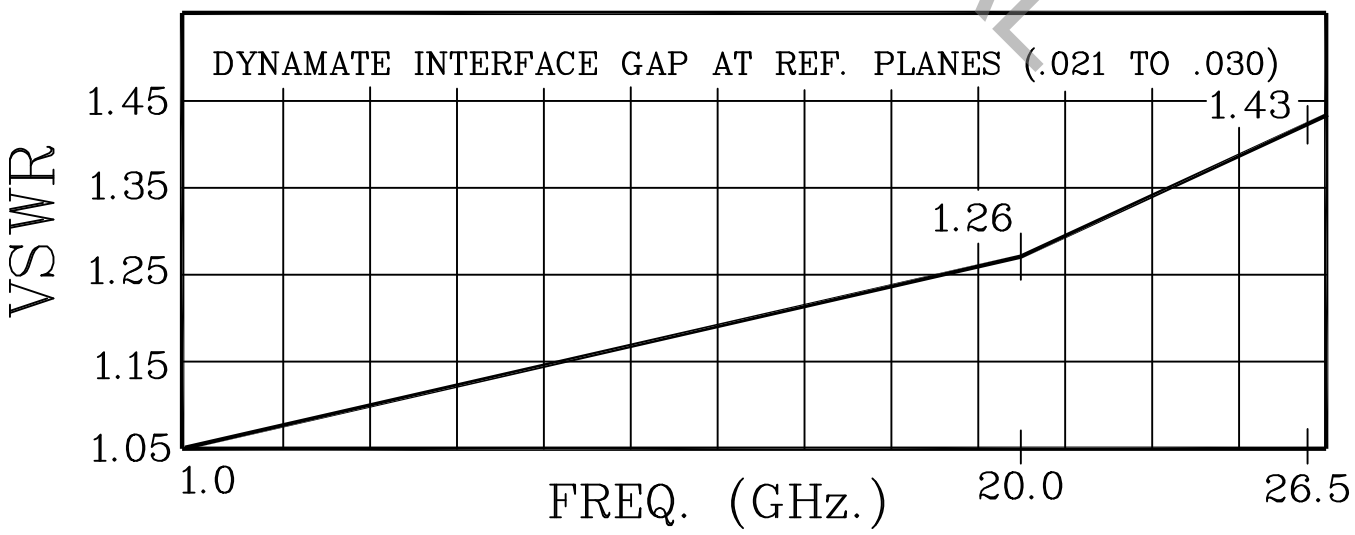


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