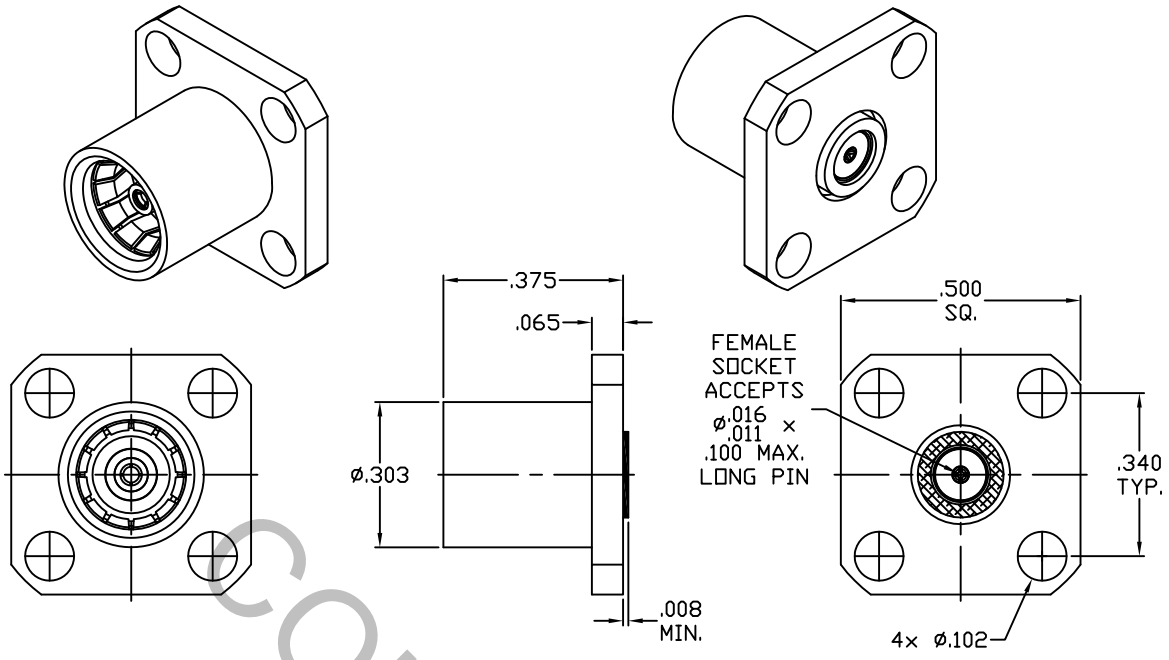
SPECIFICATION CONTROL DRAWING



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1. MATING — INTERFACE DIMENSIONS PER MIL-STD-348A, Fig. 321-2 (BMA, JACK)

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 26.5 GHz
VSWR (MAX.) ❋	SEE SHEET 3
INSERTION LOSS (dB MAX.)	
• DYNAMATE INTERFACE GAP (.000 TO .010)	.035 dB x $\sqrt{FGHz}$
• DYNAMATE INTERFACE GAP (.011 TO .020)	.050 dB x $\sqrt{FGHz}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	250
RF LEAKAGE (MIN. dB DOWN)	
• DYNAMATE INTERFACE BOTTOMED (.000 GAP)	100 dB – FGHz
• DYNAMATE INTERFACE GAP (.001 TO .010)	90 dB – FGHz.
• DYNAMATE INTERFACE GAP (.011 TO .020)	75 dB – FGHz.
TEMPERATURE RATING (DEGREES CENTIGRADE)	−65°c TO +165°c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	750
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	17-2098	9/15/17	DC

DIMENSIONS ARE IN INCHES
TOLERANCES

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

dynawave INCORPORATED
HAVERHILL, MA 01835

DRAWN DC DATE 9/15/17

APPROVED DC DATE 9/15/17

TITLE
BMA JACK
4 HOLE FLANGE
FIELD REPLACEABLE

CODE IDENT. 2J899

SHEET 1 OF 3

DWG. NO. 6754-0781-6214

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT
- MAX.AXIAL FORCE — 6.0 LBS.
- MAX. RADIAL TORQUE — N/A

CENTER CONTACT AXIAL FORCES
- INSERTION (MAX. OUNCES) — 32.0 FRONT, 32.0 REAR
- WITHDRAWAL (MIN. OUNCES) — 2.0 FRONT, 1.0 REAR

CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. IN. LBS.) — 2.0

CONNECTOR DURABILITY (MIN. CYCLES) — 500

RECOMMENDED MATING TORQUE — N/A

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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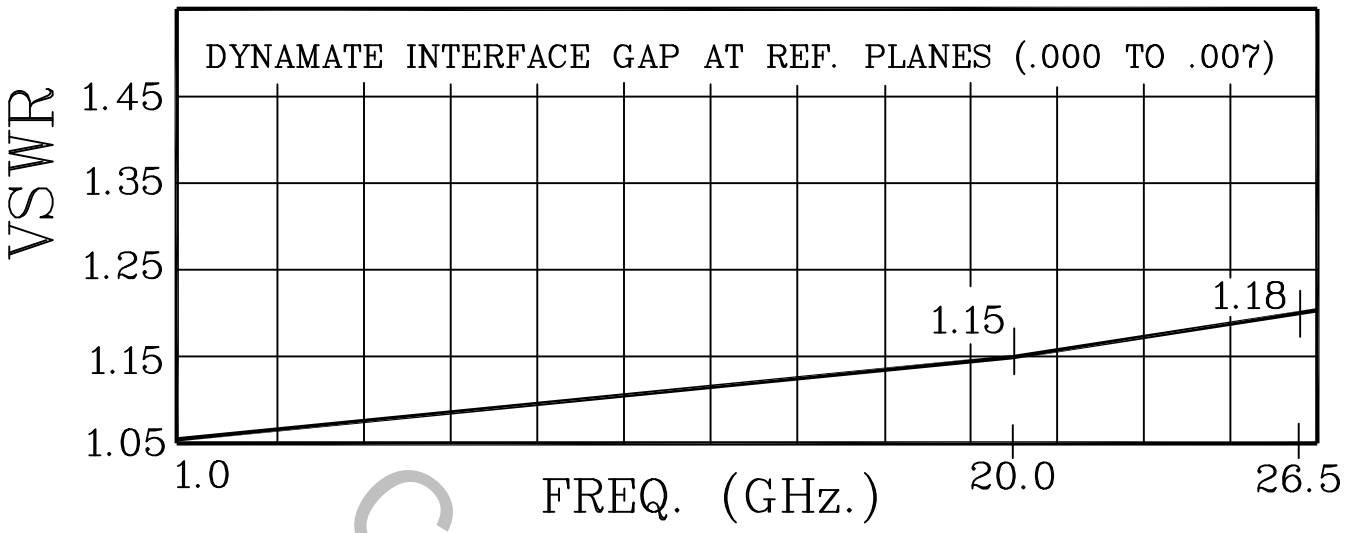
5. MATERIAL

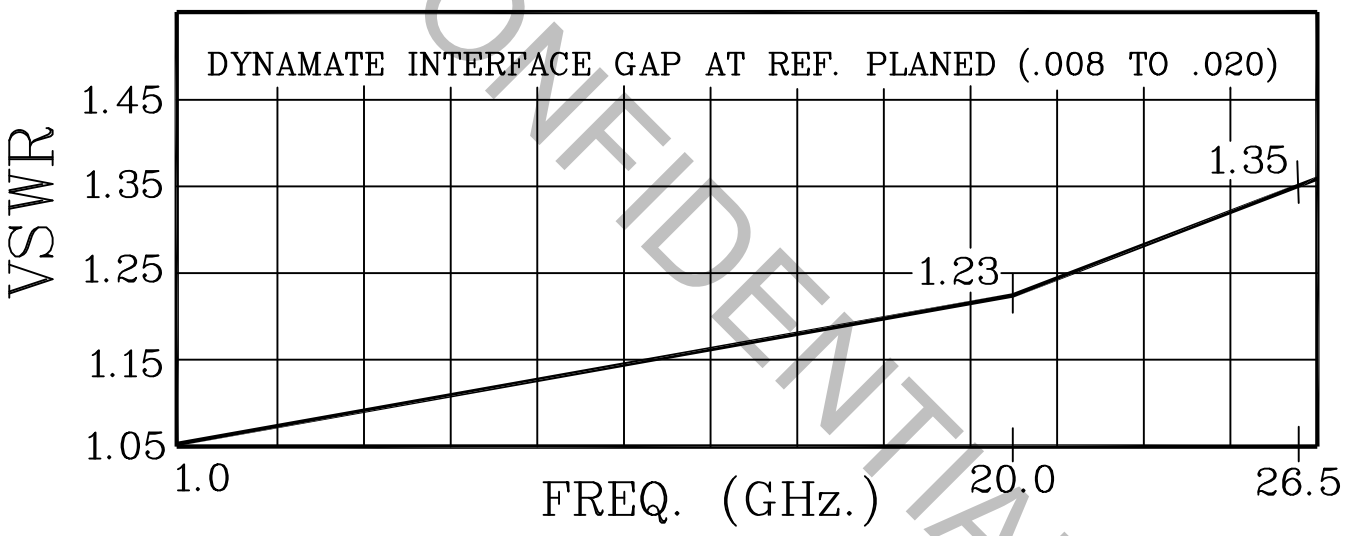
BODY	STAINLESS STEEL PER ASTM A 582, TYPE 303, COND. A
CENTER CONTACT & SPRING FINGERS	BERYLLIUM COPPER PER ASTM–B–196/B 196M–03, COPPER ALLOY No. UNS–C17300, TEMPER TD04.
CENTER CONTACT HOOD	BRASS PER ASTM–B–16, TEMPER H02, ALLOY C36000.
INSULATOR	TEFLON PER ASTM–D–1710–02, TYPE 2, GRADE 1, CLASS A.
EMI GASKET	SILVER PLATED ALUMINUM IN SILICONE RUBBER.

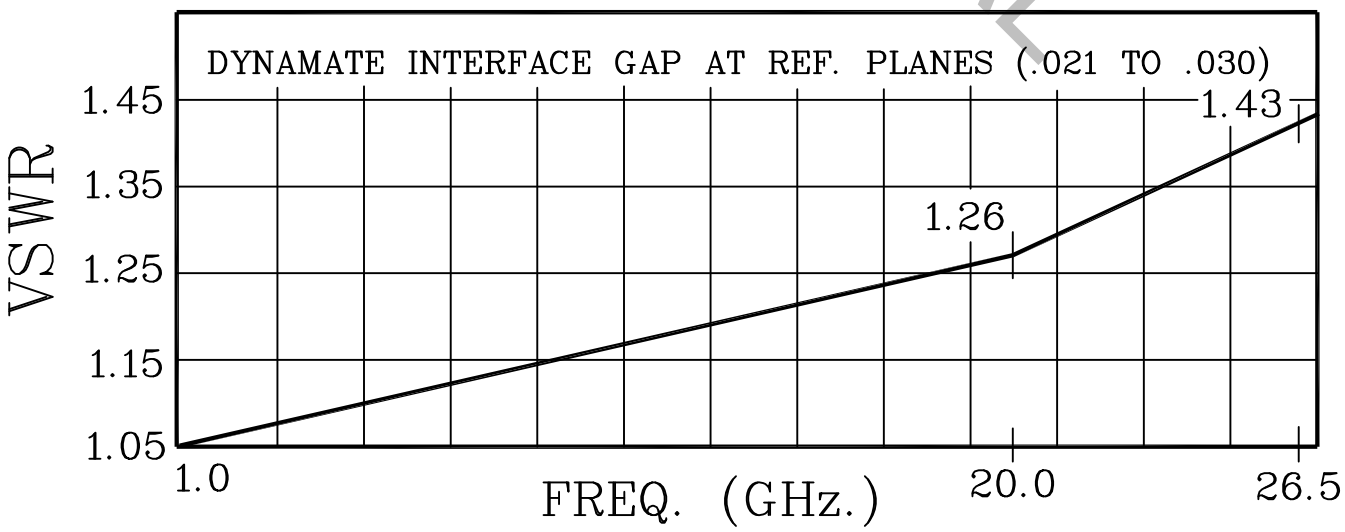
6. FINISH

BODY	PASSIVATE PER AMS–2700, TYPE 2, CLASS 4.
CENTER CONTACT ASSEMBLY	GOLD PER ASTM–B–488, TYPE I, CODE C, CLASS 1.27 (.000050 MIN. THK.) OVER NICKEL per QQ–N–290, CLASS 1 (.000050 MIN. THK.) OVER COPPER per AMS–2418 (.000010 MIN. THK.)
SPRING FINGERS	GOLD PER ASTM–B–488, TYPE I, CODE C, CLASS 0.75 (.000030 MIN. THK.) OVER NICKEL per QQ–N–290, CLASS 1 (.000050 MIN. THK.) OVER COPPER per AMS–2418 (.000010 MIN. THK.)
INSULATOR & EMI GASKET	N/A

SPECIFICATION CONTROL DRAWING







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