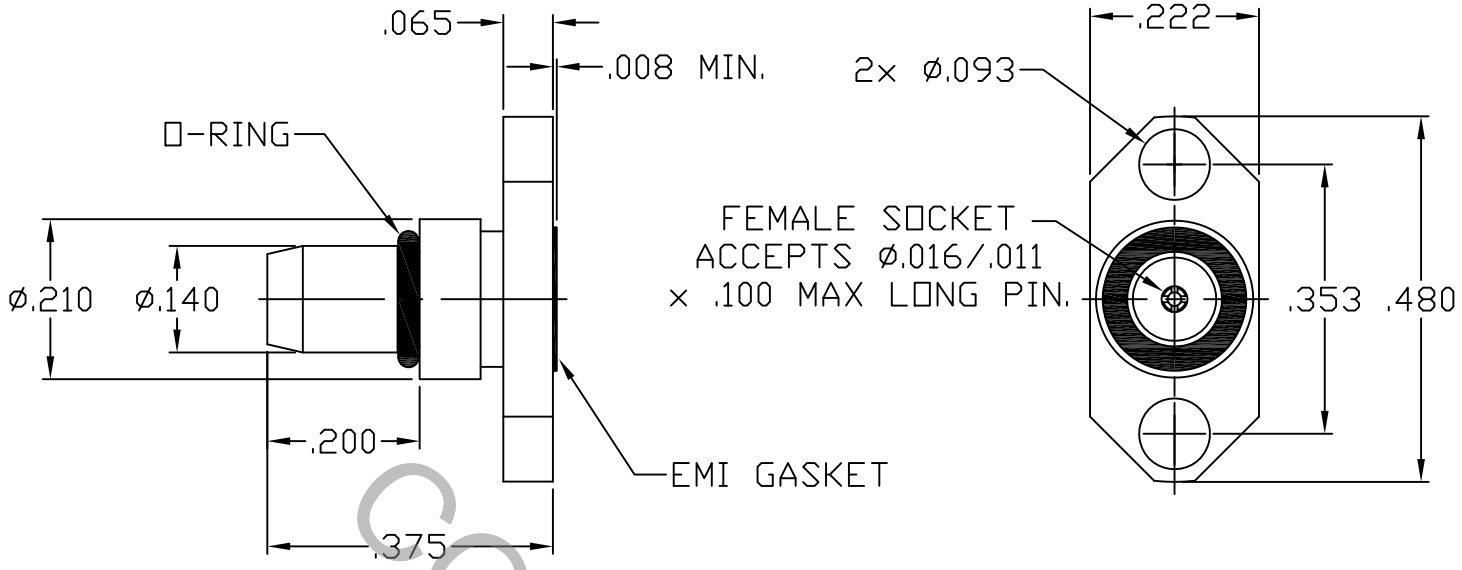
SPECIFICATION CONTROL DRAWING



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1. MATING — INTERFACE DIMENSIONS PER DYNAWAVE SPECIFICATION MD-26 (BMAM, PLUG)
2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 38.0 GHz
VSWR (MAX.) ❋	SEE SHEET 3
INSERTION LOSS (dB MAX.)	
• BMAM INTERFACE GAP (.000 TO .015)	.045 dB x $\sqrt{FGHz}$
• BMAM INTERFACE GAP (.016 TO .030)	.060 dB x $\sqrt{FGHz}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	250
RF LEAKAGE (MIN. dB DOWN)	
• BMAM INTERFACE BOTTOMED (.000 GAP)	100 dB – FGHz
• BMAM INTERFACE GAP (.001 TO .015)	90 dB – FGHz
• BMAM INTERFACE GAP (.016 TO .030)	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	06-2401	11/17/06	TS
AB	10-1127	2/5/10	TS
AC	17-1180	2/6/17	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 TS DATE 2/5/10

APPROVED DC DATE 2/5/10

CODE IDENT. 2J899

SHEET 1 OF 3

TITLE
BMAM PLUG,
2 HOLE FLANGE,
FIELD REPLACEABLE

DWG. NO. 2652-0781-6413

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT
- MIN. AXIAL FORCE (BOTH) — 4.5 LBS.
- MIN. RADIAL TORQUE — N/A

DYNAMITE ENGAGEMENT FORCES
- INSERTION (MAX. OUNCES) — REAR 32.0
- WITHDRAWAL (MIN. OUNCES) — REAR 1.0

DYNAMITE DURABILITY (MIN. MATING) — 1,000

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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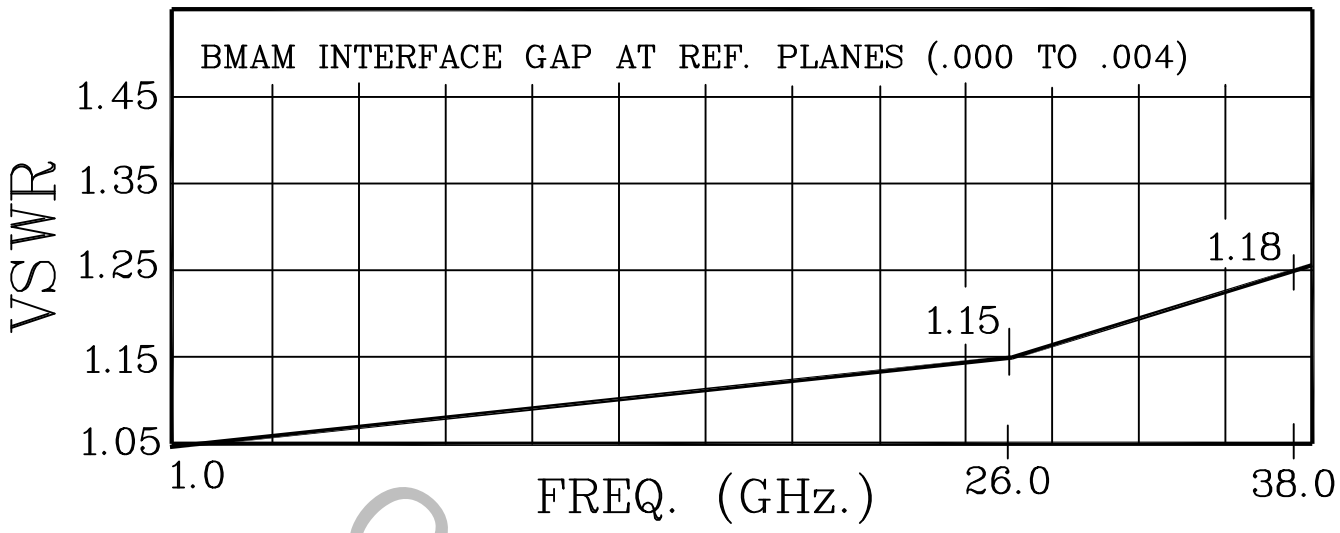
5. MATERIAL

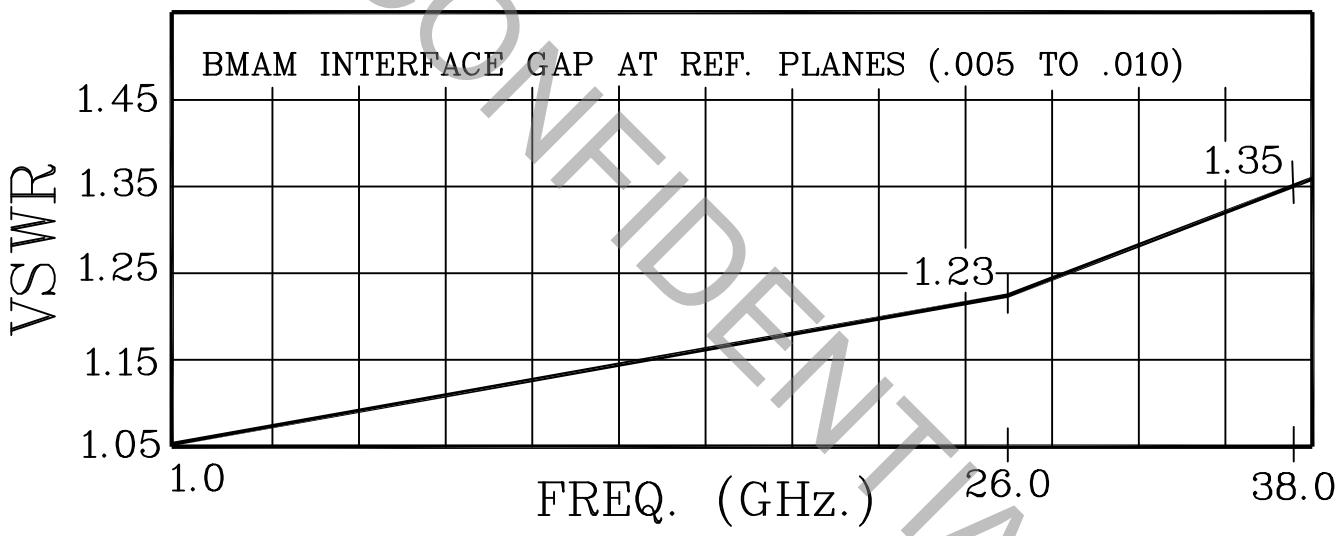
CONNECTOR BODY	STAINLESS STEEL PER ASTM–A–582, TYPE 303, COND. A.
CENTER CONTACT	BERYLLIUM COPPER PER ASTM–B196/B, 196M–03, COPPER ALLOY No. UNS C17300, TEMPER TD04.
INSULATOR	TEFLON PER ASTM–D–1710–02, TYPE 1, GRADE 1, CLASS B.
O–RING	NITRILE (BUNA–N) PER MIL–P–25732.
EMI GASKET	SILVER PLATED ALUMINUM IN SILICONE

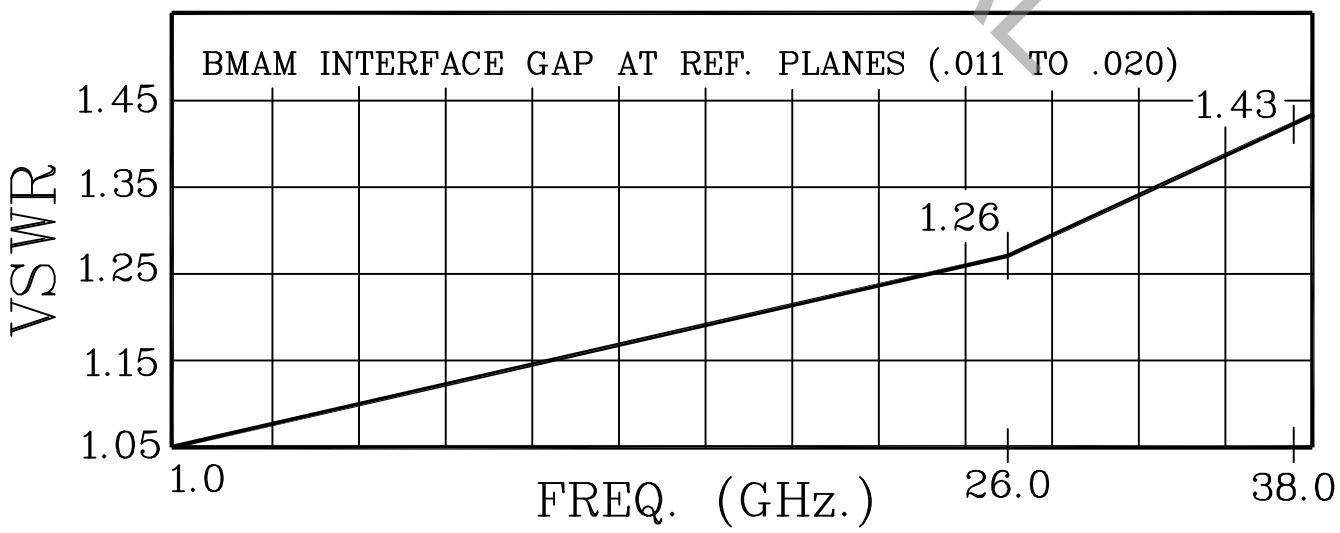
6. FINISH

CONNECTOR BODY	GOLD PER ASTM–B–488, TYPE 1, 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.).
CENTER CONTACT	GOLD PER ASTM–B–488, TYPE 1, CODE C, CLASS 1.27 (.000050 MIN. THK.) OVER NICKEL PER SAE–AMS–QQ–N–290, CLASS 1 (.000050 MINIMUM THICKNESS) OVER COPPER per AMS–2418 (.000010 MIN. THK.).
INSULATOR, O'RING AND EMI GASKET	N/A

SPECIFICATION CONTROL DRAWING







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dynawave INCORPORATED	SHEET 3 OF 3	DWG. NO. 2652-0781-6413	REV. AC