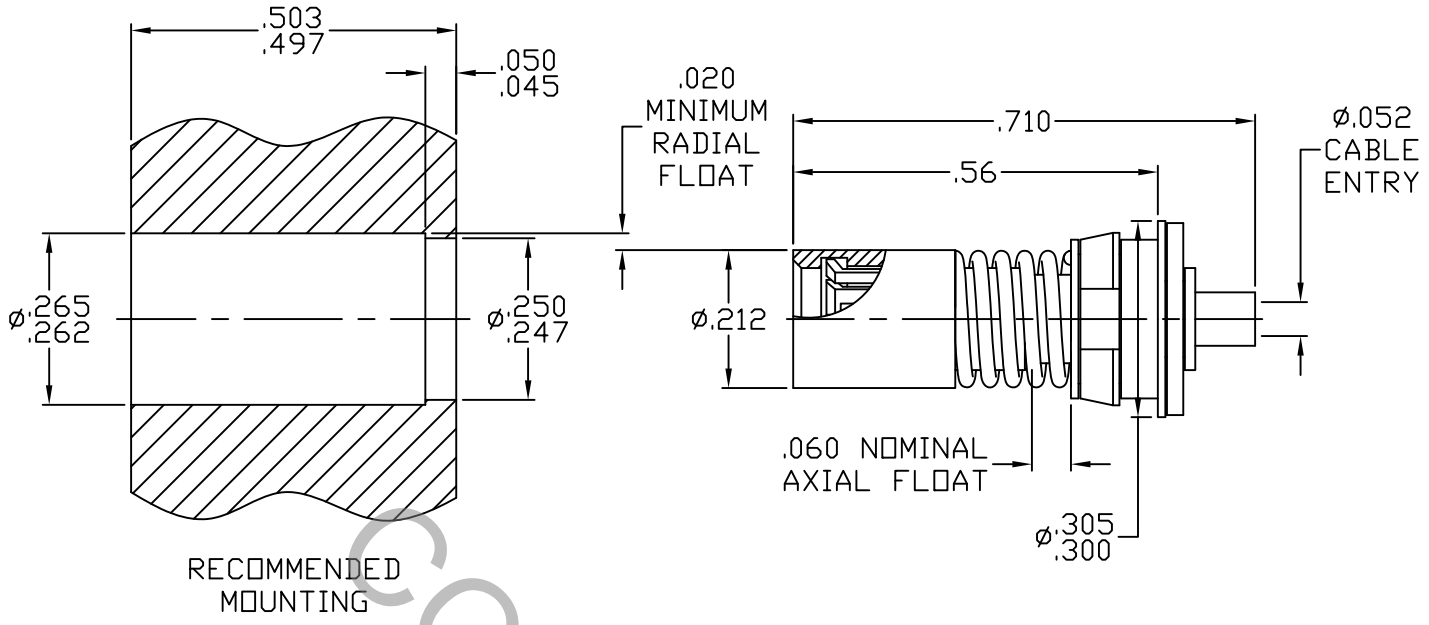
SPECIFICATION CONTROL DRAWING



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1. MATING INTERFACE DIMENSIONS Per DYNAWAVE SPECIFICATION MD-65 (BMAM JACK).

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 28.0 GHz
VSWR (MAX.) ❋	SEE SHEET 3
INSERTION LOSS (dB MAX.) ❋	
• BMAM INTERFACE GAP (.000 TO .010)	.055 dB x $\sqrt{FGHz}$
• BMAM INTERFACE GAP (.011 TO .020)	.07 dB x $\sqrt{FGHz}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	170
RF LEAKAGE (MIN. dB DOWN)	
• BMAM INTERFACE BOTTOMED	−90 dB − FGHz
• BMAM INTERFACE GAP (.001 TO .011)	−80 dB − FGHz
• BMAM INTERFACE GAP (.011 TO .020)	−75 dB − FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	−65°c TO + 165°c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	500
INSULATION RESISTANCE (MIN. MEGOHMS)	5,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	6.0
• OUTER CONTACT (MAX. MILLIOHMS)	3.0

❋ TERMINATED IN A 50 OHM LOAD

RoHS COMPLIANT

This Document contains proprietary and confidential information.

REV.	DCN NO.	DATE	APP.
AA	17-1920	7/31/17	TS

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 7/31/17

APPROVED DC DATE 7/31/17

TITLE BMAM JACK, BULKHEAD FLOAT MOUNT DIRECT SOLDER TO ø.047 SEMI-RIGID CABLE

CODE IDENT. 2J899

SHEET 1 OF 3

DWG. NO. 6560-4721-6441

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT
- MAX. AXIAL FORCE — 4.5 LBS.
- MAX. RADIAL TORQUE — N/A

CENTER CONTACT AXIAL FORCES
- INSERTION (MAX. OUNCES) — INTERFACE 32.0
- WITHDRAWAL (MIN. OUNCES) — INTERFACE 1.0

CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. LBS.) — 3.0 / 1.5

CONNECTOR DURABILITY (MIN. CYCLES) — 500

RECOMMENDED MATING TORQUE — N/A

SPRING FOURCE AT .030 PRELOAD — 2.0 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	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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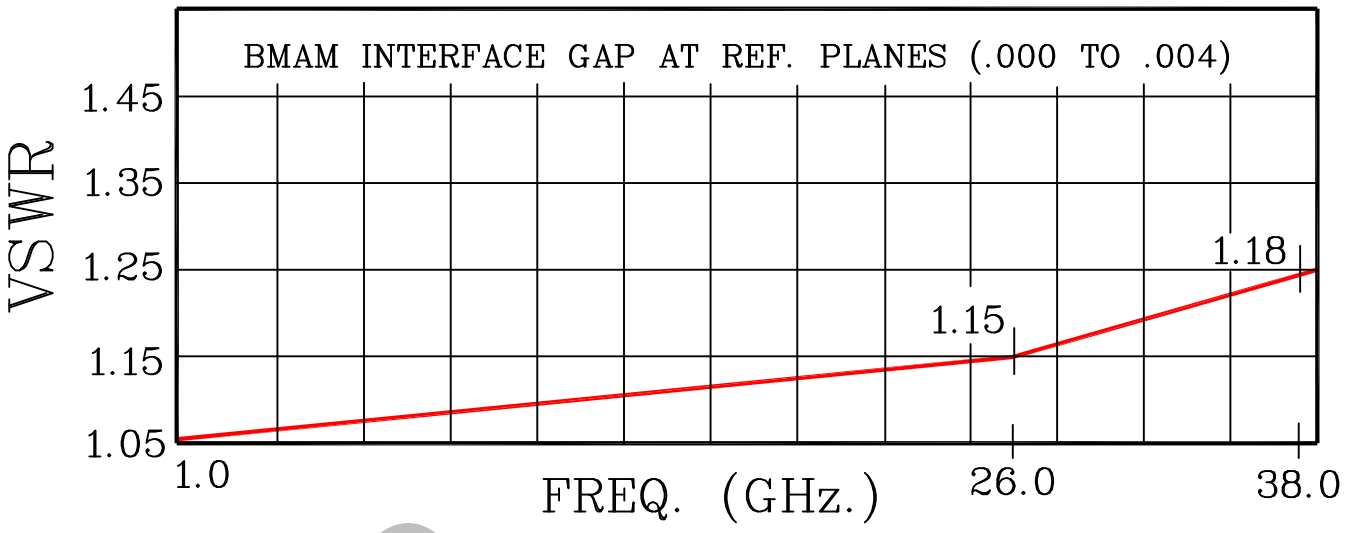
5. MATERIAL

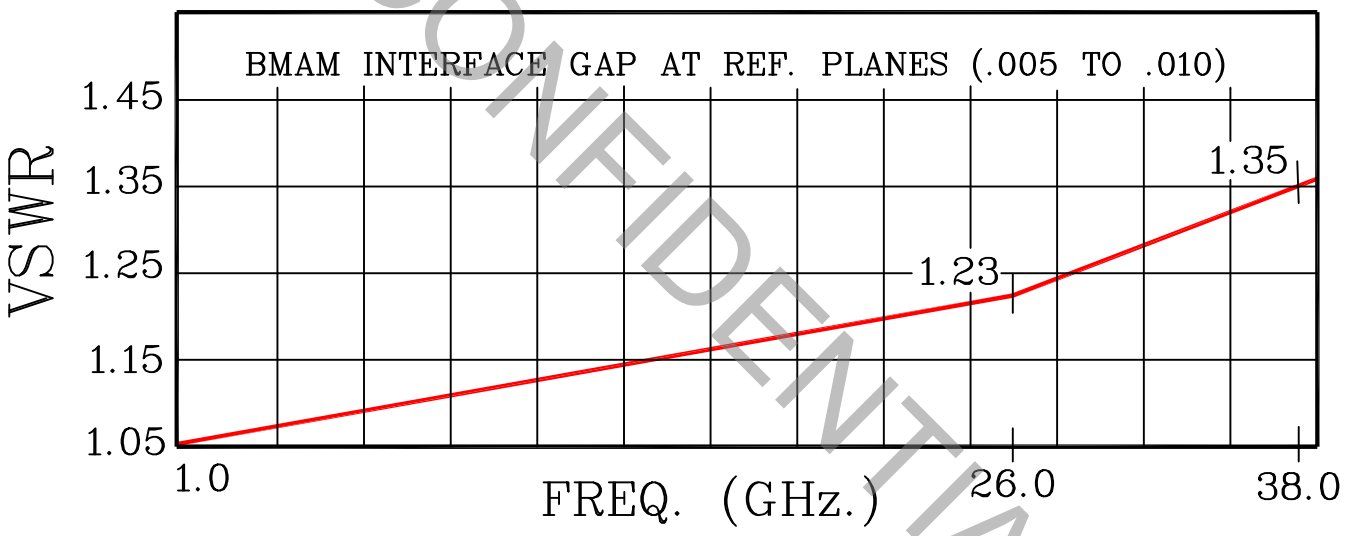
BODY & FERRULE	STAINLESS STEEL PER ASTM–A–582, TYPE 303, COND. A
CONTACT, SPRING FINGERS & RETAINER	BERYLLIUM COPPER PER ASTM–B–196/B, 196M–03, COPPER ALLOY No. UNS–C17300, TEMPER TD04.
INSULATOR	TEFLON PER ASTM–D–1710–02, TYPE 1, GRADE 1, CLASS B.
SPRING	STAINLESS STEEL PER ASTM–A–313 OR AMS–5688, TYPE 302, SPRING TEMPER.
E–RING	CARBON SPRING STEEL (SAE 1060–1090).

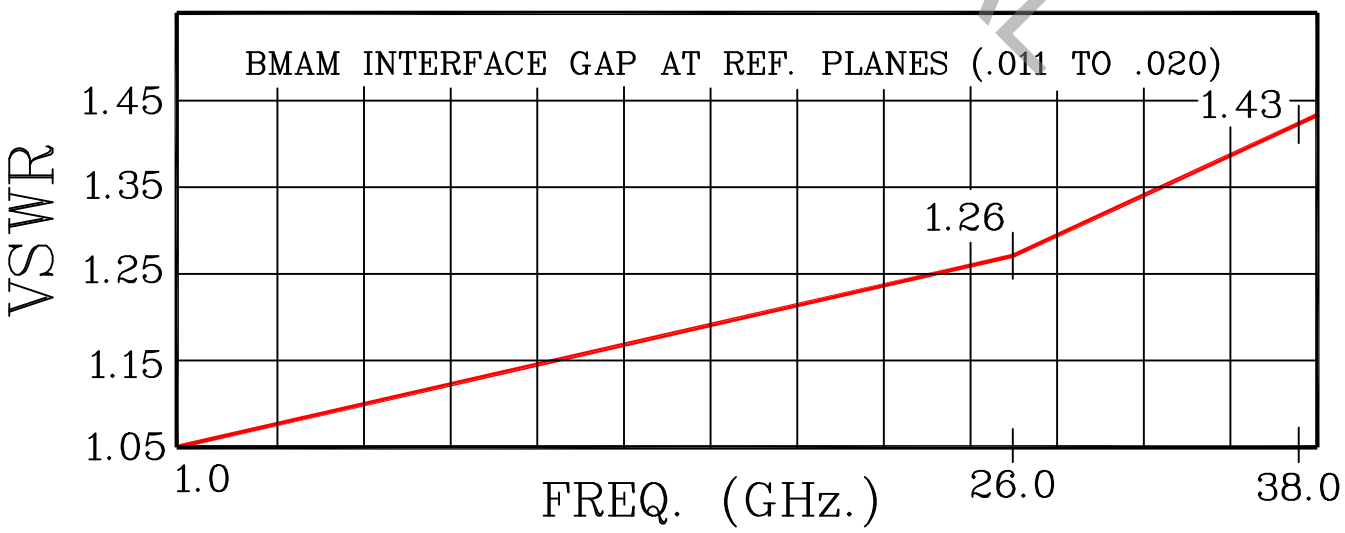
6. FINISH

FERRULE & SPRING	PASSIVATE PER AMS–2700, TYPE 2, CLASS 4.
BODY	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.)
CONTACT & 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
E–RING	BLACK CORROSION RETARDANT PHOSPHATE COATING.

SPECIFICATION CONTROL DRAWING







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dynawave INCORPORATED	SHEET 3 of 3	DWG. NO. 6560-4721-6441	REV. AA