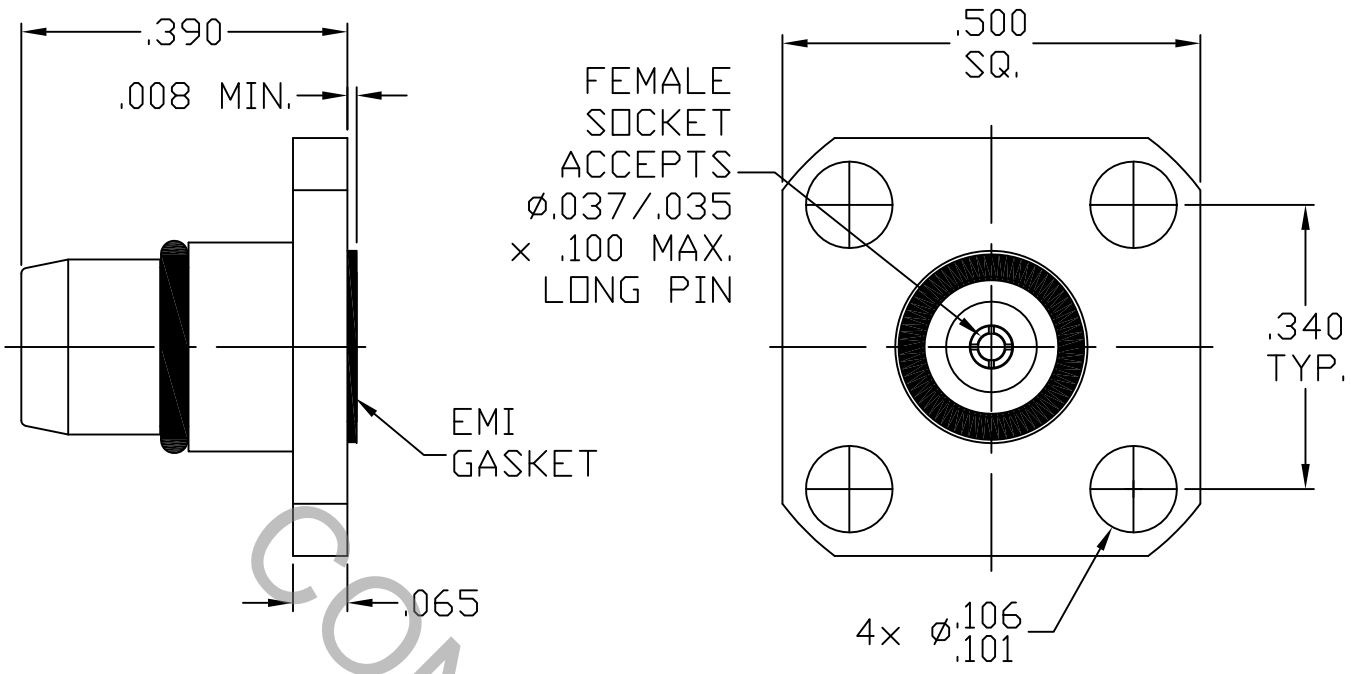
SPECIFICATION CONTROL DRAWING



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1. MATING

INTERFACE DIMENSIONS Per MIL-STD-348 Fig. 321.1 (BMA PLUG)

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 26.5 GHz
VSWR (MAX.) ❋	SEE SHEET 3
INSERTION LOSS (dB MAX.)	
• BMA INTERFACE GAP (.000 TO .015)	.035 dB x $\sqrt{FGHz}$
• BMA INTERFACE GAP (.016 TO .030)	.050 dB x $\sqrt{FGHz}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	333
RF LEAKAGE (MIN. dB DOWN)	
• BMA INTERFACE BOTTOMED (.000 GAP)	−100 dB − FGHz
• BMA INTERFACE GAP (.001 TO .015)	−90 dB − FGHz
• BMA 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

REV.	DCN NO.	DATE	APP.
AA	12-1160	2/16/12	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: 2/16/12

APPROVED: DC DATE: 2/16/12

TITLE
BMA PLUG, 4 HOLE,
FIELD REPLACEABLE,
WITH EMI GASKET

CODE IDENT. 2J899

SHEET 1 OF 3

DWG. NO. 2854-0781-6236

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

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

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

BMA DURABILITY (MIN. MATING) ——— 1,000

RECOMMENDED MATING TORQUE ——— N/A

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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.) (190 VRMS)

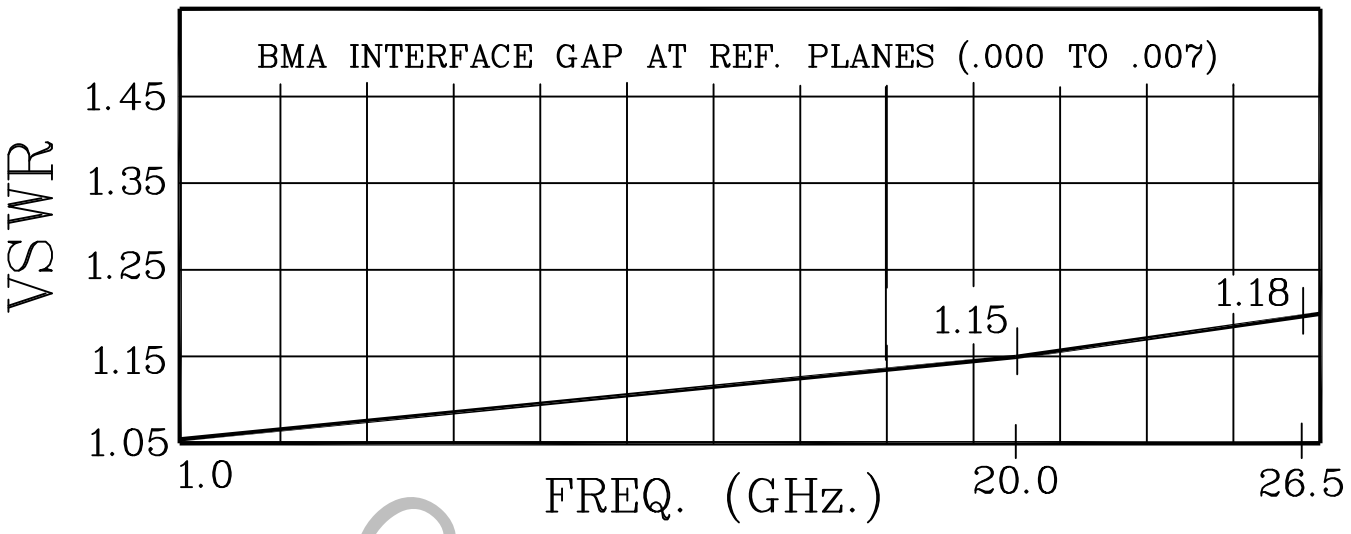
5. MATERIAL

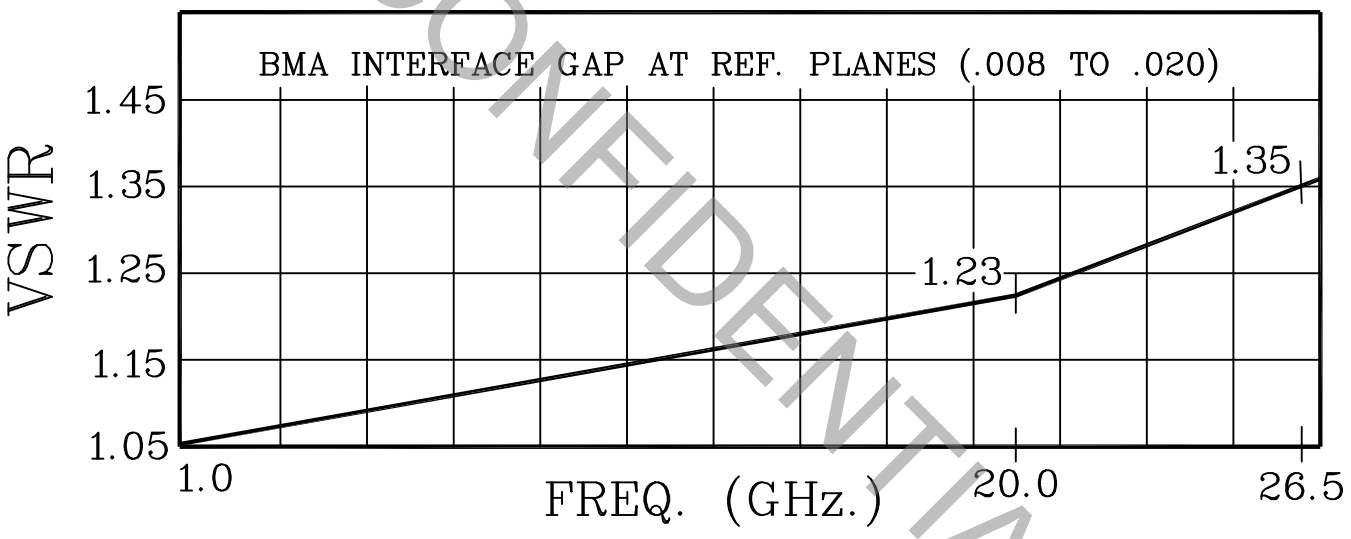
CONNECTOR BODY	STAINLESS STEEL PER ASTM–A–582, TYPE 303, COND. A.
CENTER CONTACT	BERYLLIUM COPPER PER ASTM B196/B, 196M–03, COPPER ALLOY UNS 17300, TEMPER TD04.
INSULATOR	TEFLON PER ASTM–D–1710–02, TYPE 1, GRADE 1, CLASS B.
O'RING	NITRILE (BUNA–N)
EMI GASKET	~~SIL~~VER PLATED ALUMINUM IN SILICONE RUBBER

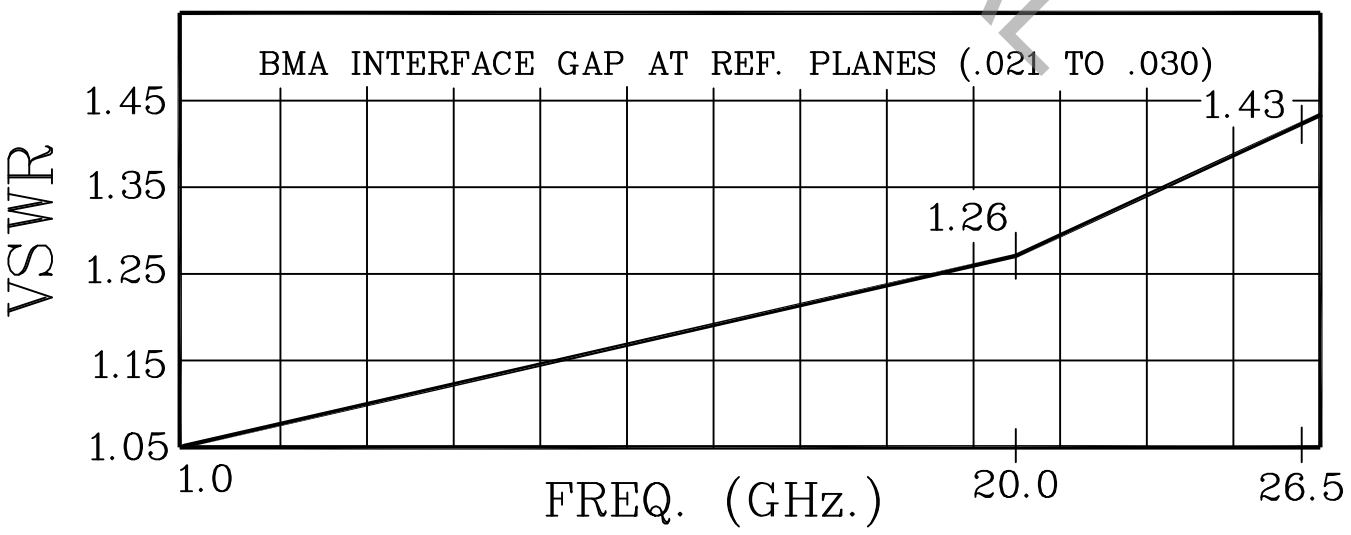
6. FINISH

CONNECTOR BODY	PASSIVATE PER AMS 2700, TYPE 2, CLASS 4.
CENTER 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, GASKET AND O'RING	N/A

SPECIFICATION CONTROL DRAWING







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