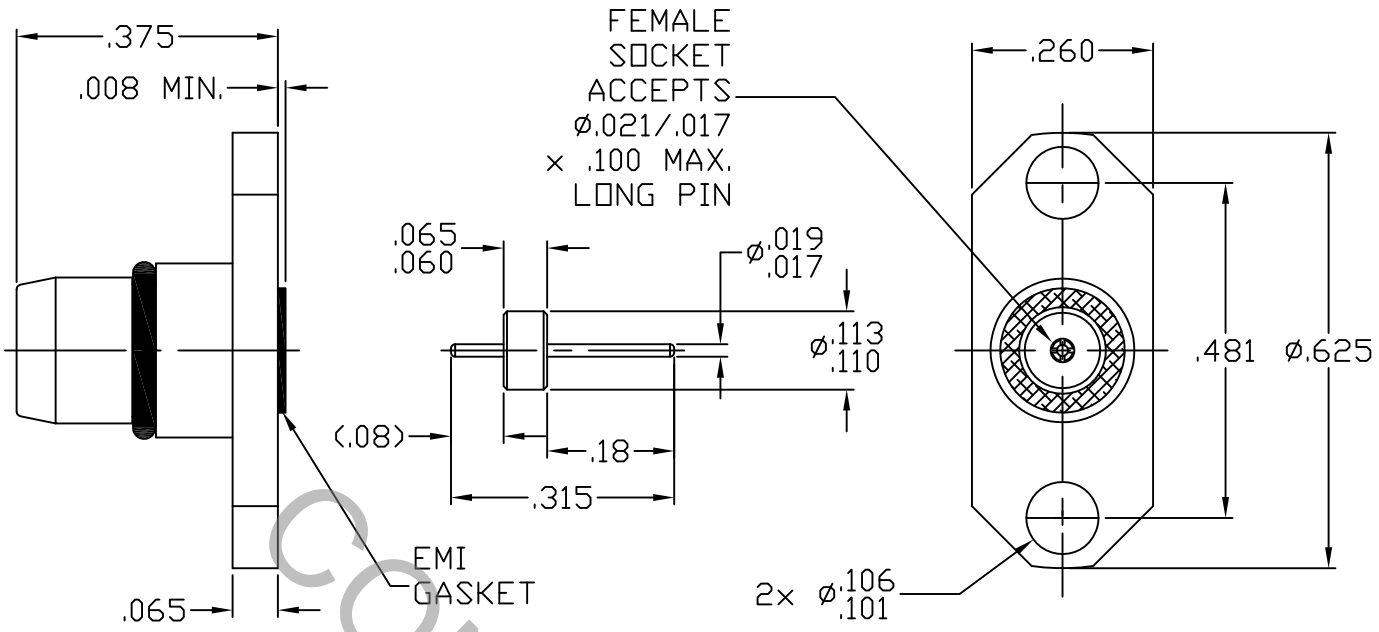
SPECIFICATION CONTROL DRAWING



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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.)	
• DYNAMATE INTERFACE GAP (.000 TO .015)	.070 dB x $\sqrt{FGHz}$
• DYNAMATE INTERFACE GAP (.016 TO .030)	.085 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 .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)	750
INSULATION RESISTANCE (MIN. MEGOHMS)	10,000
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	02-1089	12/9/02	BN
AB	15-2419	10/9/15	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: GE DATE: 12/9/02

APPROVED: BN DATE: 12/9/02

TITLE: BMA PLUG, 2 HOLE, FIELD REPLACEABLE, WITH EMI GASKET AND GLASS FEED THRU

CODE IDENT. 2J899

SHEET 1 OF 3

DWG. NO. 2852-0718-6240

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT	
• MIN. AXIAL FORCE	4.5 LBS.
• MIN. RADIAL TORQUE	N/A
BMA ENGAGEMENT FORCES	
• INSERTION (MAX. OUNCES)	INTERFACE 48.0, REAR 32.0
• WITHDRAWAL (MIN. OUNCES)	INTERFACE 2.0, REAR 1.0
BMA DURABILITY (MIN. MATING)	1,000
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)
HERMETICITY	BEAD SHALL NOT EXCEED A LEAK RATE OF 10^{-8} cc/SEC. USING A TRACER GAS OF HELIUM AT A PRESSURE DIFFERENTIAL OF 15 PSI.

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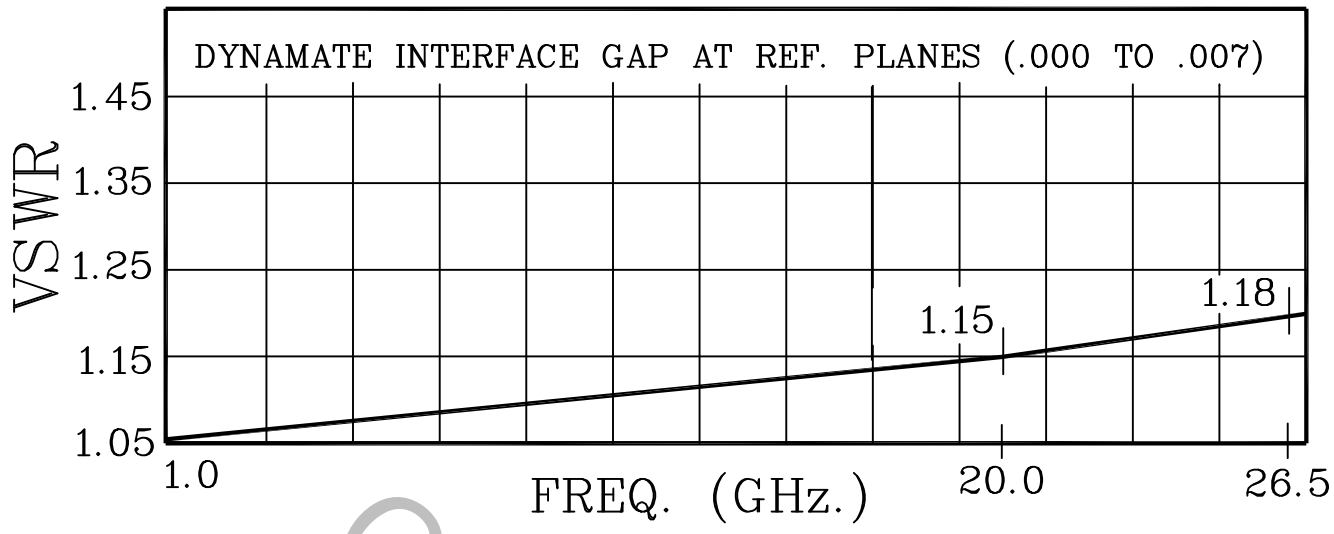
5. MATERIAL

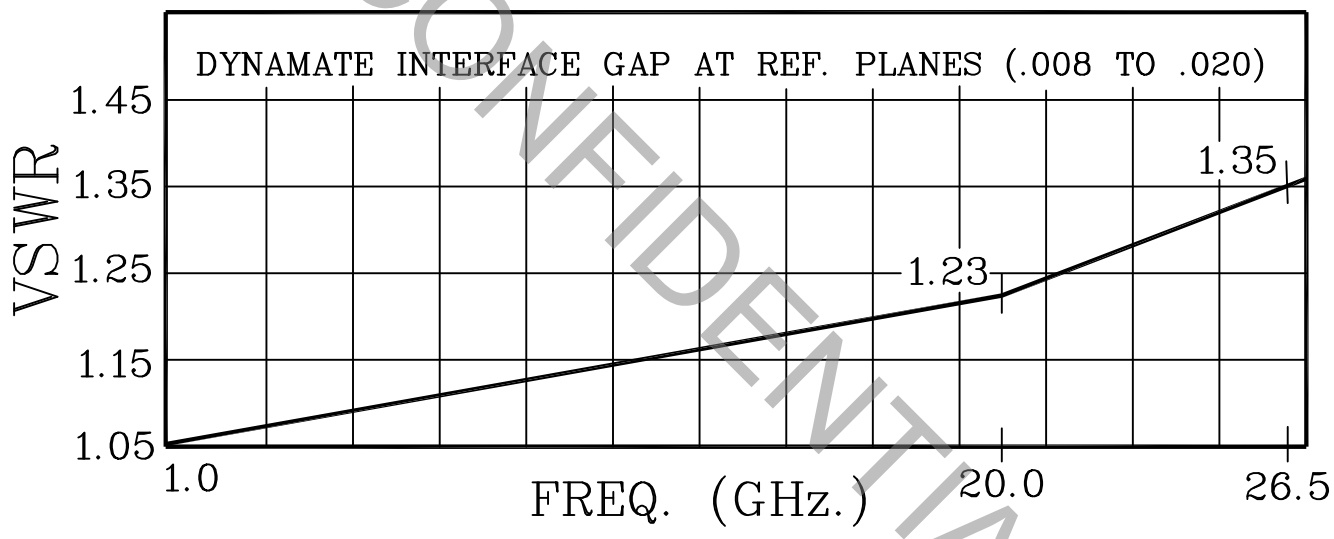
CONNECTOR BODY	STAINLESS STEEL PER ASTM–A–582, TYPE 303, COND. A.
CENTER CONTACT	BERYLLIUM COPPER PER ASTM B196/B, 196M–03, COPPER ALLOY No. UNS C17300, TEMPER TD04.
INSULATOR	TEFLON PER ASTM D 1710–02, TYPE 1, GRADE 1, CLASS B.
O'RING	NITRILE (BUNA–N)
EMI GASKET	SILVER PLATED ALUMINUM IN SILICONE RUBBER
GLASS RING AND PIN	KOVAR per MIL–I–23011
GLASS	CORNING 7070

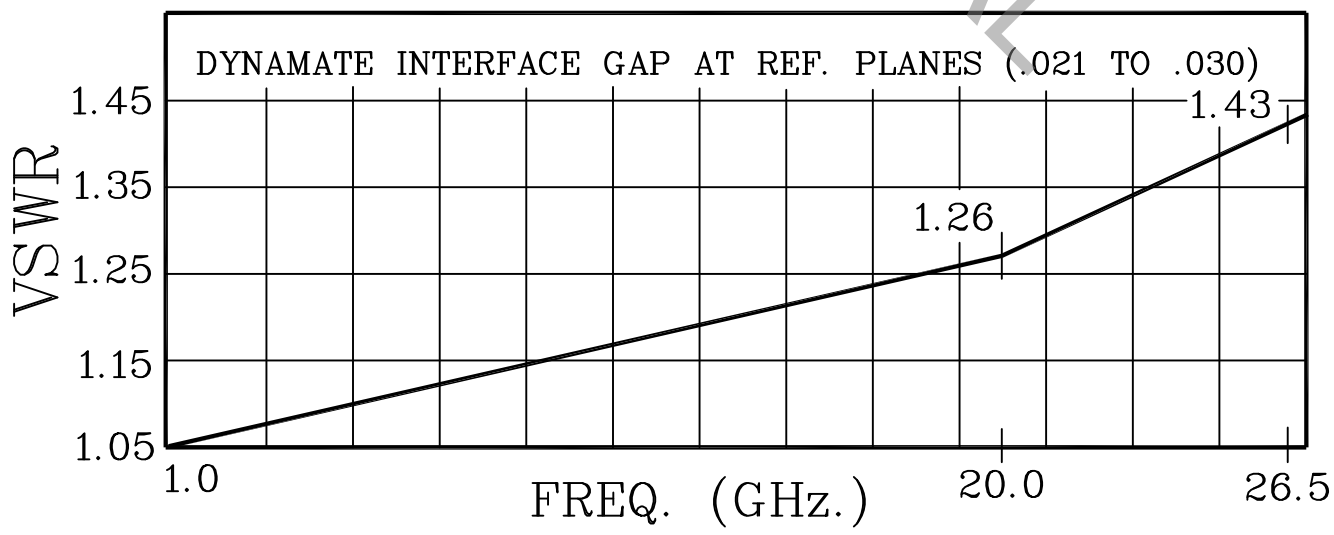
6. FINISH

CONNECTOR BODY	PASSIVATE PER AMS–2700, TYPE 2, CLASS 4.
GLASS RING & PIN	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 COPPER PER AMS–2418 (.000010 MIN.THK.).
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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