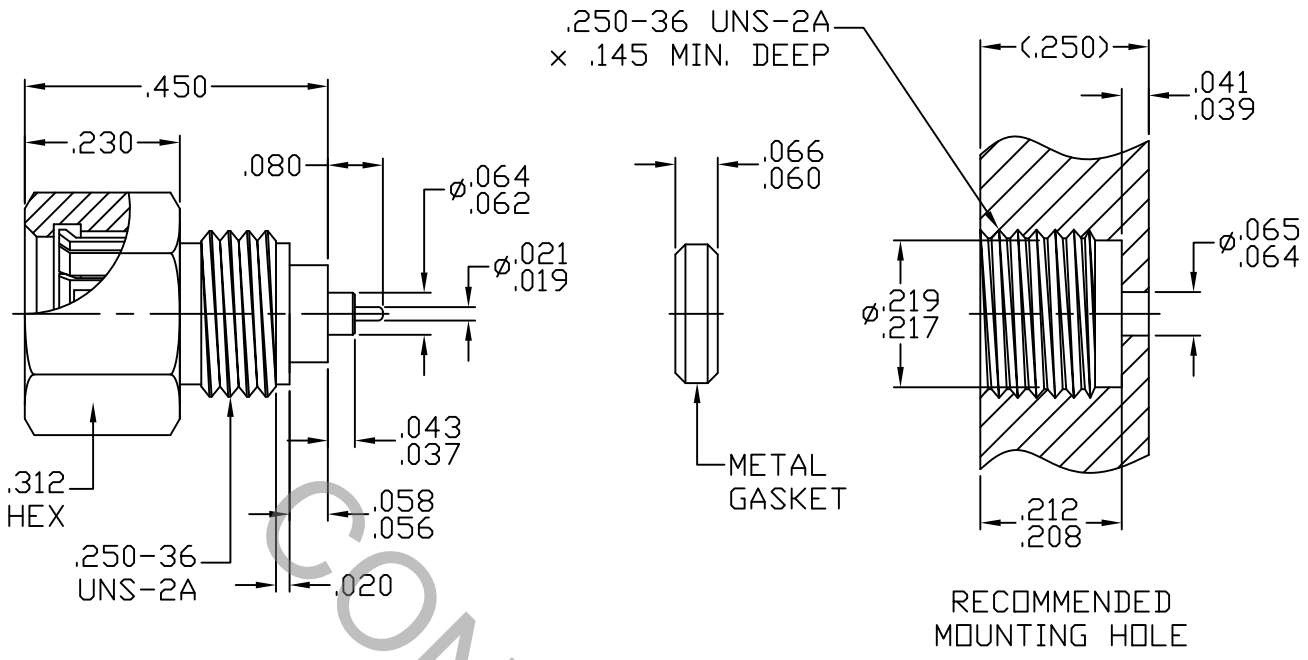
SPECIFICATION CONTROL DRAWING



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1. MATING

INTERFACE DIMENSIONS PER MIL-STD-348A, Fig. 321.2 AND DYNAWAVE SPECIFICATION MD-67 (BMA, JACK)

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 26.5 GHz.
VSWR (MAX.) ❋	1.06 + .010 x FGHz. FULLY MATED
INSERTION LOSS (dB MAX.)	SEE SHEET 3
• DYNAMATE INTERFACE GAP (.000 to .015)	.040 dB x $\sqrt{FGHz}$
• DYNAMATE INTERFACE GAP (.016 to .030)	.060 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)	5,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	12.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

❋ TERMINATED IN A 50 OHM LOAD

RoHS COMPLIANT

REV.	DCN NO.	DATE	APP.
AA	10-1254	3/9/10	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 3/9/10

APPROVED DC DATE 3/9/10

CODE IDENT. 2J899

SHEET 1 OF 3

TITLE
BMA JACK,
HERMETIC SPARK PLUG,
METAL GASKET

DWG. NO. 6730-0431-6426

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT	
● MIN. AXIAL FORCE	6.0 LBS.
● MIN. RADIAL TORQUE	1.5 IN. OZS.
DYNAMATE ENGAGEMENT FORCES	
● INSERTION (MAX. OUNCES)	48.0
● WITHDRAWAL (MIN. OUNCES)	2.0
DYNAMATE DURABILITY (MIN. MATING)	1000
RECOMMENDED MATING FORCES	
● MIC PACKAGE (TORQUE)	20–22 IN. LBS.
● PLUG CONNECTOR – INSERTION FORCE	3.0 LBS. MAXIMUM

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	1 x 10^{-8} cc/SEC.

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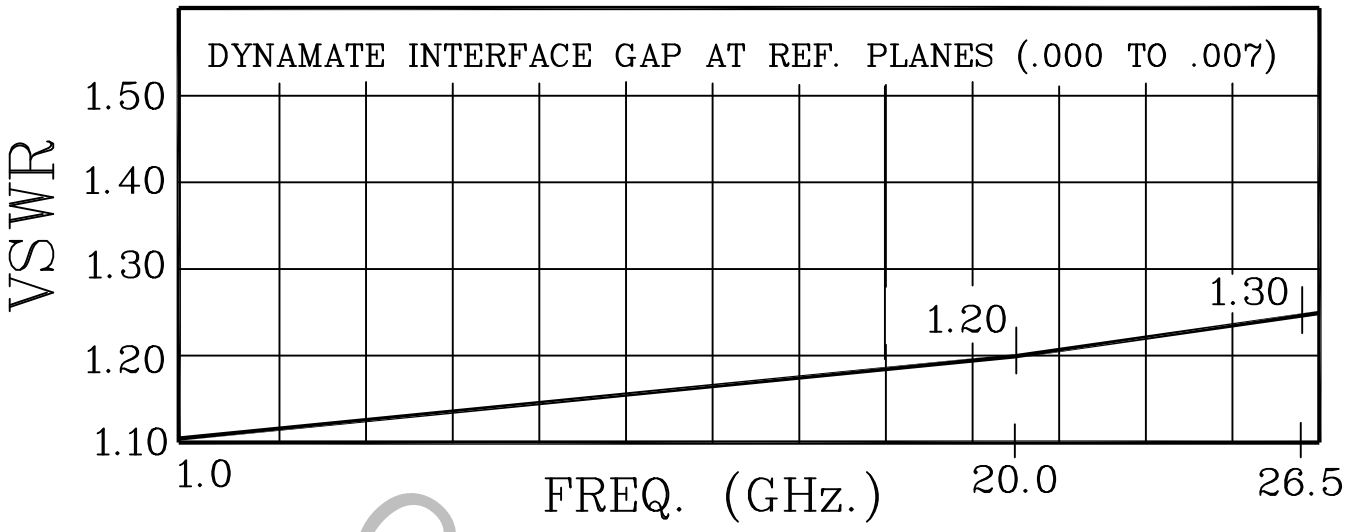
5. MATERIAL

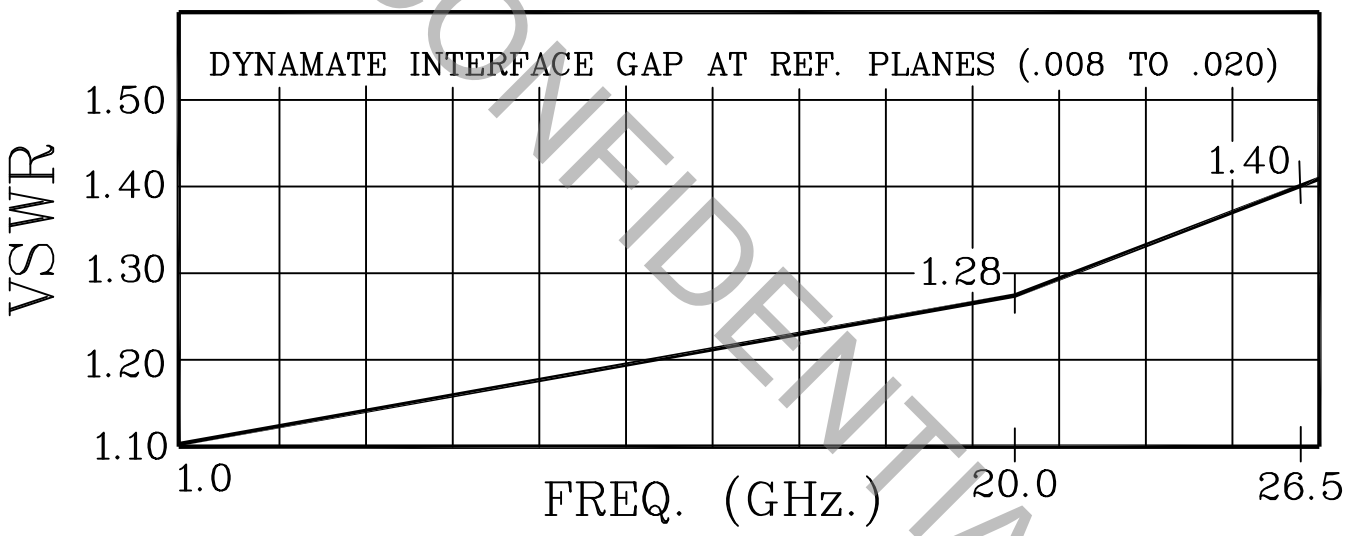
CONNECTOR BODY	STAINLESS STEEL PER ASTM–A–582, TYPE 303, COND. A.
CENTER CONTACT AND SPRING FINGERS	BERYLLIUM COPPER PER ASTM–B196/B, 196M–03, COPPER ALLOY No. UNS 17300, TEMPER TD04.
INSULATOR	TEFLON PER ASTM D 1710–02, TYPE 1, CLASS 1, GRADE B.
GLASS	CORNING 7070
GLASS PIN	KOVAR
CONTACT HOOD	BRASS PER ASTM–B–16, TEMPER H02, ALLOY C36000.
METAL GASKET	CARBON STEEL PER B113, CASE HARDENED.
GASKET	SILICONE RUBBER PER ZZ–R–765.

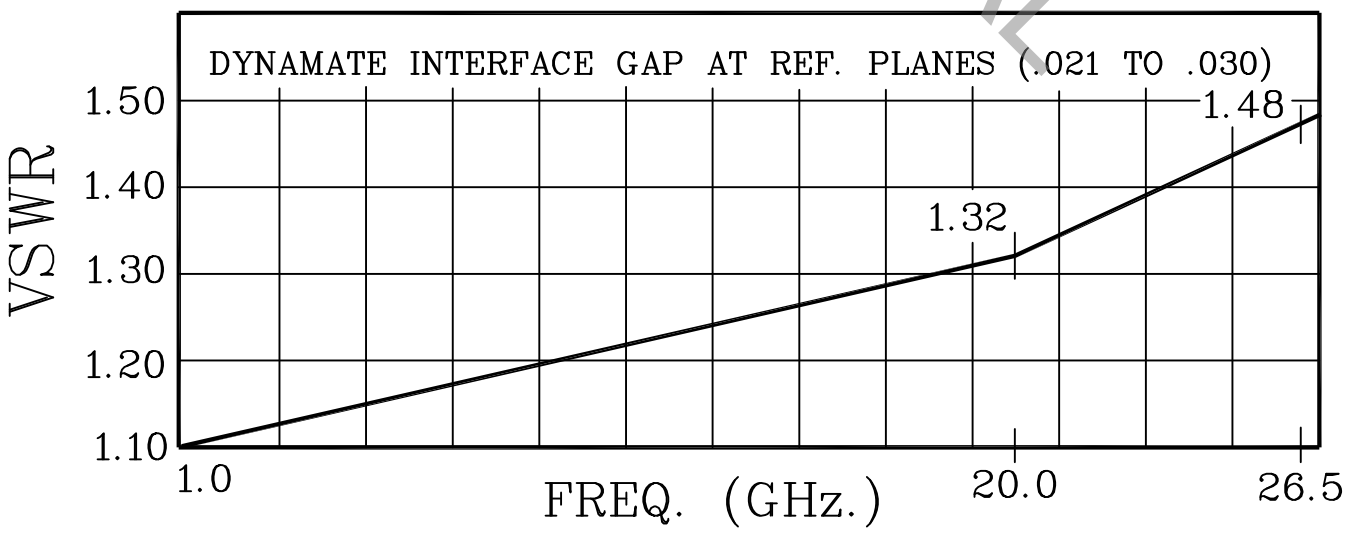
6. FINISH

BODY, METAL GASKET & GLASS PIN	GOLD PER ASTM–B–488, TYPE I, CODE C, CLASS 1.25 (.000050 MIN. THICKNESS) OVER COPPER PER MIL–C–14550 (.000010 MIN. THICKNESS).
CENTER CONTACT, HOOD & SPRING FINGERS	GOLD PER ASTM–B–488, TYPE I, CODE C, CLASS 1.25 (.000050 MIN. THICKNESS) OVER COPPER PER MIL–C–14550 (.000010 MIN. THICKNESS).
INSULATOR, GLASS & GASKET	N/A

SPECIFICATION CONTROL DRAWING







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