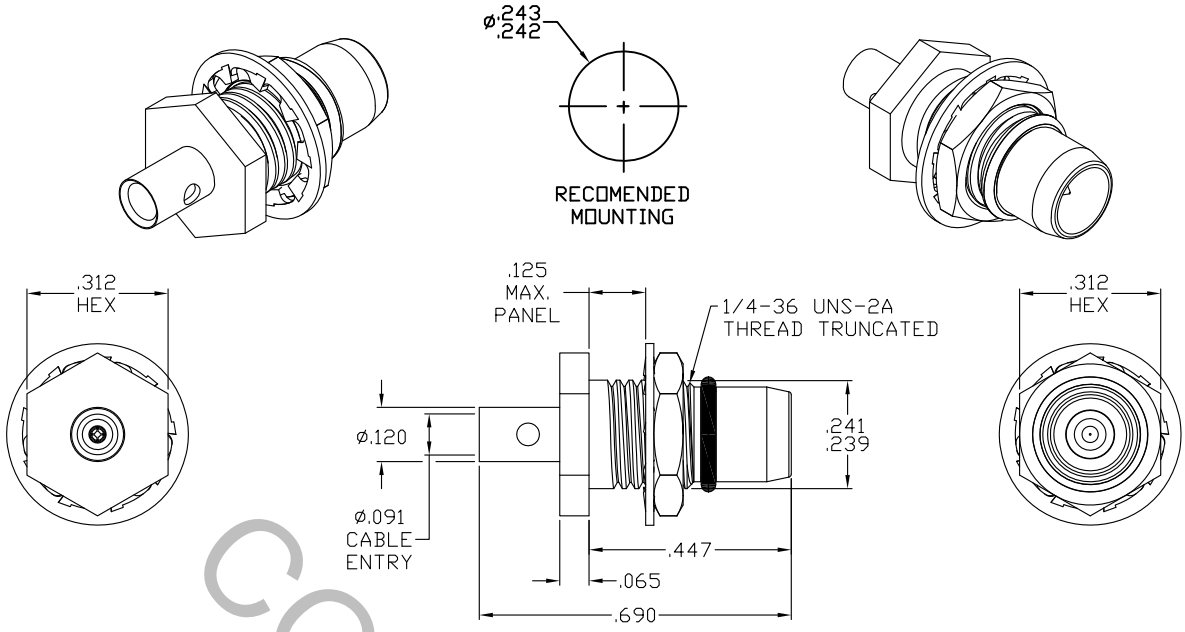
SPECIFICATION CONTROL DRAWING



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1. MATING INTERFACE DIMENSIONS Per MIL-STD-348A 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)	.04 dB x $\sqrt{FGHz}$
• BMA INTERFACE GAP (.016 TO .030)	.06 dB x $\sqrt{FGHz}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	250
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)	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

This Document contains proprietary and confidential information.

REV.	DCN NO.	DATE	APP.
–	744	3/90	TS
AA	03-2261	10/8/03	DC
AB	06-1553	4/27/06	DC
AC	14-2075	8/28/14	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 3/90

APPROVED DGG DATE 3/90

TITLE
BMA PLUG, BULKHEAD
DIRECT SOLDER TO
ø.047 SEMI-RIGID CABLE

CODE IDENT. 2J899

SHEET 1 OF 3

DWG. NO. 2810-8521-6470

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT	
MAX. AXIAL FORCE	4.5 LBS.
MAX. RADIAL TORQUE	N/A
CONNECTOR ENGAGEMENT FORCES	
● INSERTION (MAX. OUNCES)	INTERFACE 48.0, REAR 32.0
● WITHDRAWAL (MIN. OUNCES)	INTERFACE 2.0, REAR 1.0
CONNECTOR DURABILITY (MIN. CYCLES)	1,000
RECOMMENDED MOUNTING TORQUE	N/A

4. ENVIRONMENTAL

THERMAL CYCLING	MIL–STD–202, METHOD 107, COND. B (–65° c TO + 200° 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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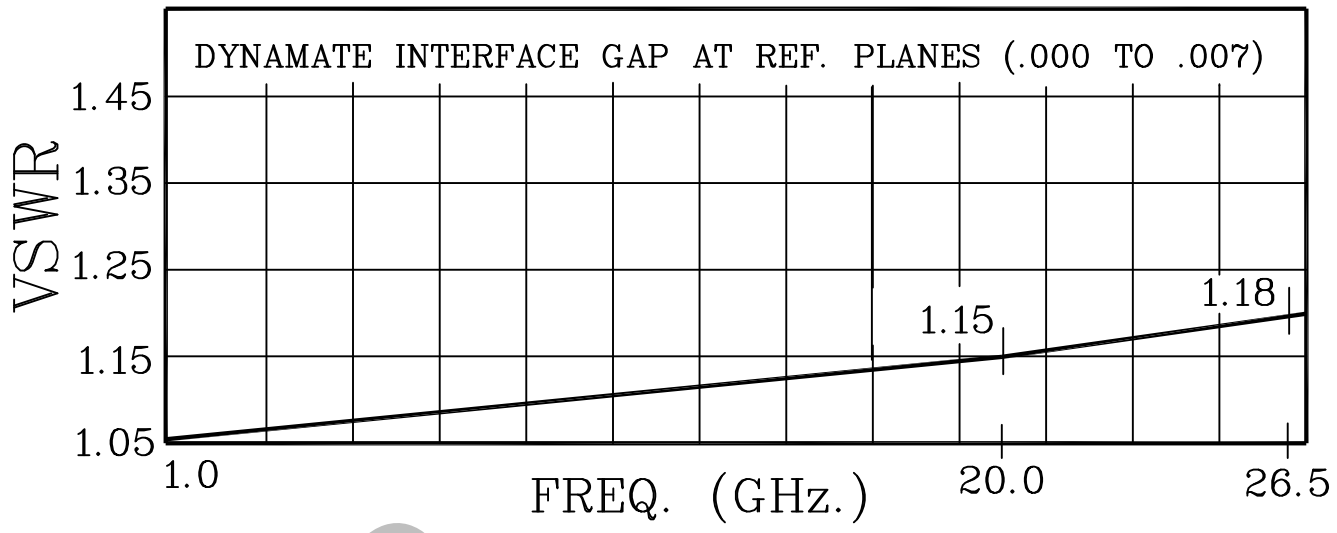
5. MATERIAL

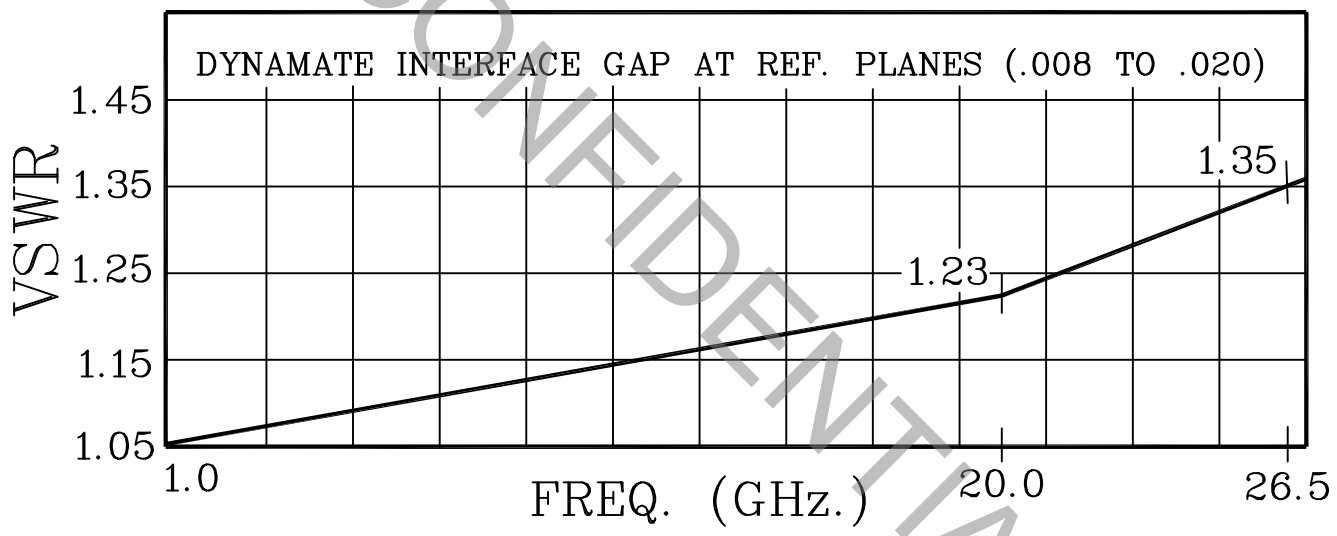
BODY & HEX NUT	STAINLESS STEEL PER ASTM–A–582, TYPE 303, COND. A
LOCKWASHER	400 SERIES STAINLESS STEEL
CONTACT	BERYLLIUM COPPER PER ASTM–B–196/B, 196M–03, COPPER ALLOY No. UNS–C17300, TEMPER TD04.
INSULATOR	TEFLON PER ASTM–D–1710–02, TYPE 1, GRADE 1, CLASS B.
O–RING	NITRILE, (BUNA–N) PER MIL–P–25732.

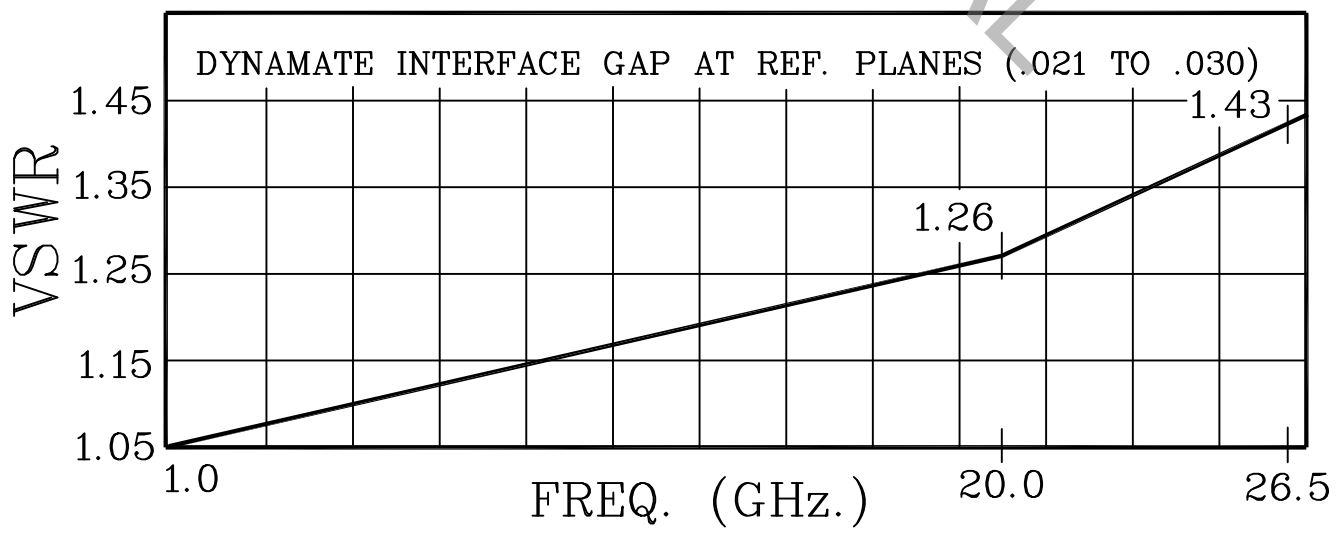
6. FINISH

HEX NUT & LOCKWASHER	PASSIVATE PER AMS–2700, TYPE 2, CLASS 4
BODY	GOLD PER ASTM–B–488, TYPE I, CODE C, CLASS 0.70 (.000030 MIN. THK.) OVER NICKEL PER SAE AMS QQ–N–290, CLASS 1 (.000050 MIN. THK.) OVER NICKEL (WOODS OR WATTS), (.000010 MIN. THK.).
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 & O–RING	N/A

SPECIFICATION CONTROL DRAWING







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