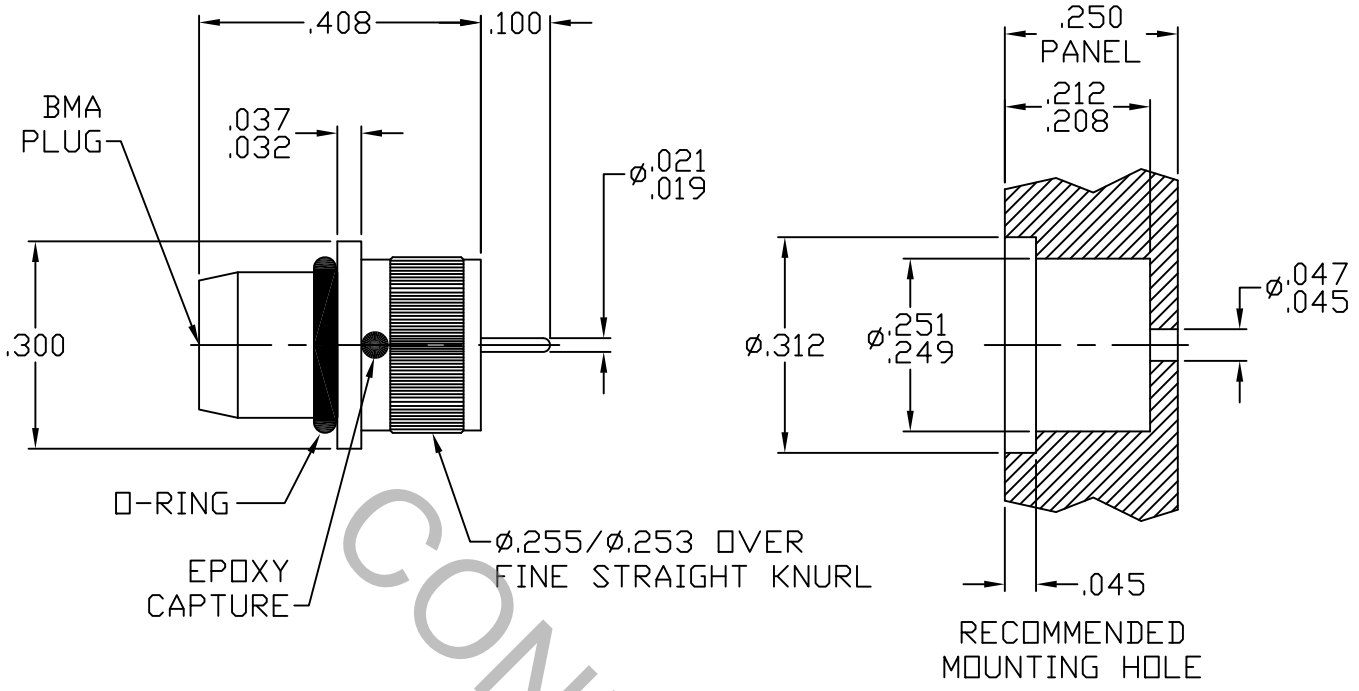
SPECIFICATION CONTROL DRAWING



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1. MATING

INTERFACE DIMENSIONS 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)	.050 dB x $\sqrt{FGHz}$
• BMA INTERFACE GAP (.016 to .030)	.070 dB x $\sqrt{FGHz}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	250
RF LEAKAGE (MIN. dB DOWN)	
• BMA INTERFACE BOTTOMED (.000 GAP)	80 dB – FGHz
• BMA INTERFACE GAP (.001 to .015)	70 dB – FGHz
• BMA INTERFACE GAP (.016 to .030)	55 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	01-0321	4/17/01	DGG
AB	11-1219	3/8/11	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	KLF	DATE	4/16/01
APPROVED	DGG	DATE	4/17/01

TITLE
BMA, PLUG
PRESS MOUNT
.020 DIA. STRAIGHT TERMINAL

CODE IDENT.	SHEET 1 OF 3	DWG. NO.
2J899		2840-0032-6220

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) ——— N/A
- WITHDRAWAL (MIN. OUNCES) ——— N/A

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 + 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.) (170 VRMS)

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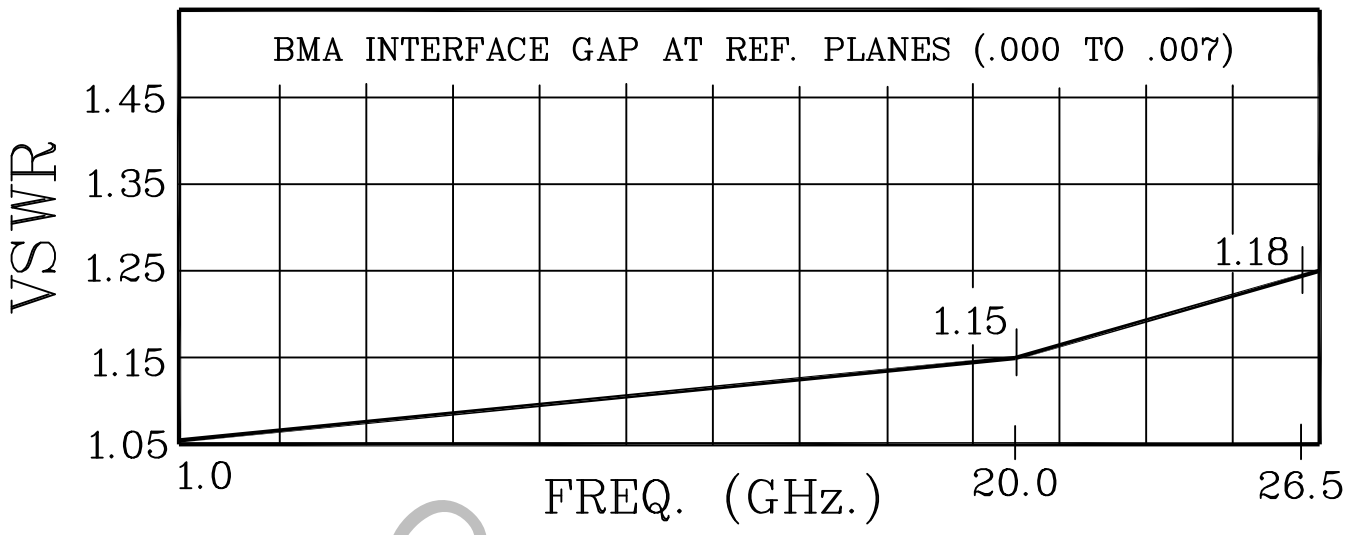
5. MATERIAL

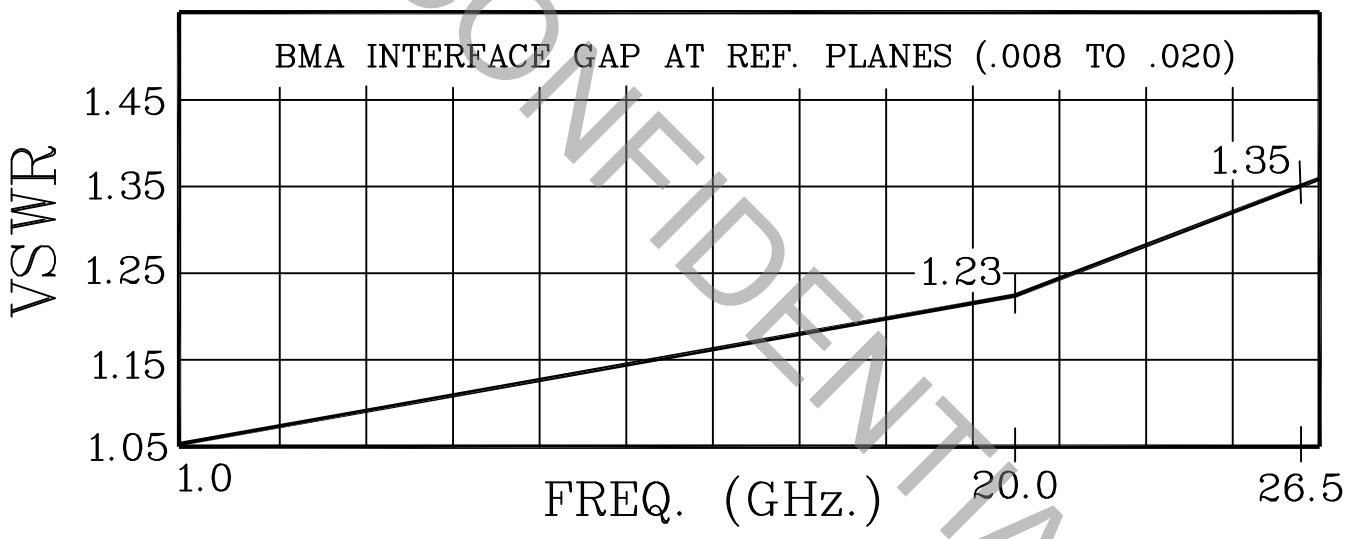
CONNECTOR BODY	STAINLESS STEEL PER ASTM A 582, TYPE 303, COND. A.
CENTER CONTACT	BERYLLIUM COPPER PER ASTM B196/B, 196M–03, COPPER ALLOY No. UNS C17300, TEMPER TD04.
INSULATOR	TEFLON PER ASTM D 1710–02, TYPE 1, GRADE 1, CLASS B.
O'RING	SILICONE RUBBER PER ZZ–R–765, CLASS IIB

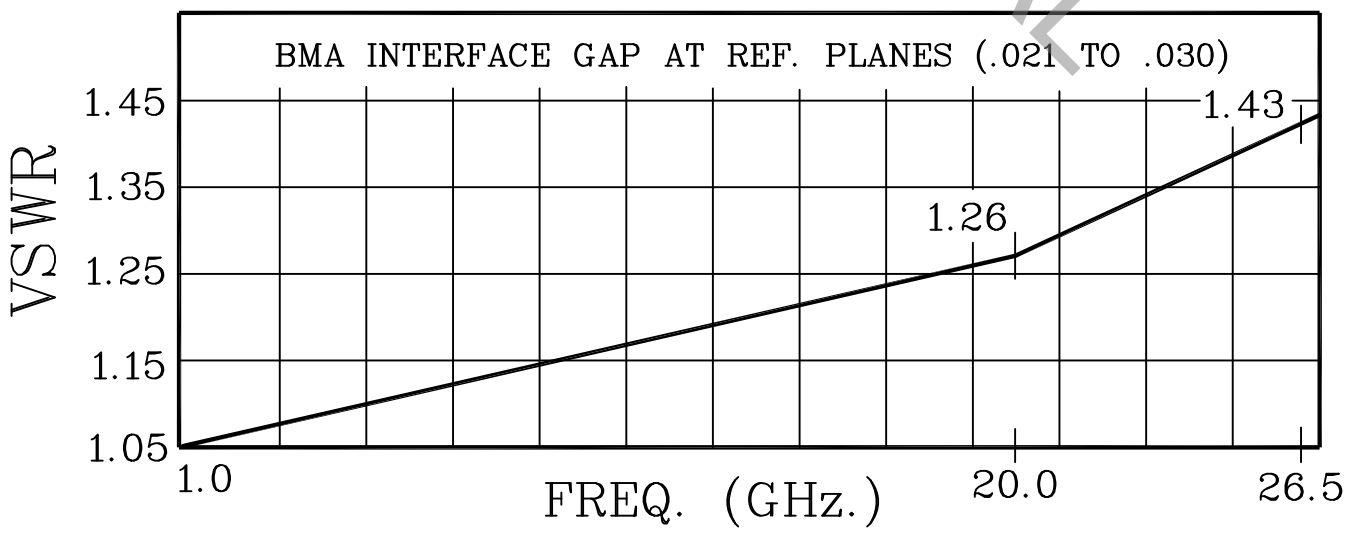
6. FINISH

CONNECTOR BODY	PASSIVATE PER AMS 2700, TYPE 2, CLASS 4.
CENTER CONTACT	GOLD PER ASTM B 488, TYPE 1, GRADE C, CLASS 1.25 (.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 AND O'RING	N/A

SPECIFICATION CONTROL DRAWING







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dynawave® INCORPORATED	Sheet 3 of 3	DWG. NO. 2840-0032-6220	REV. AB