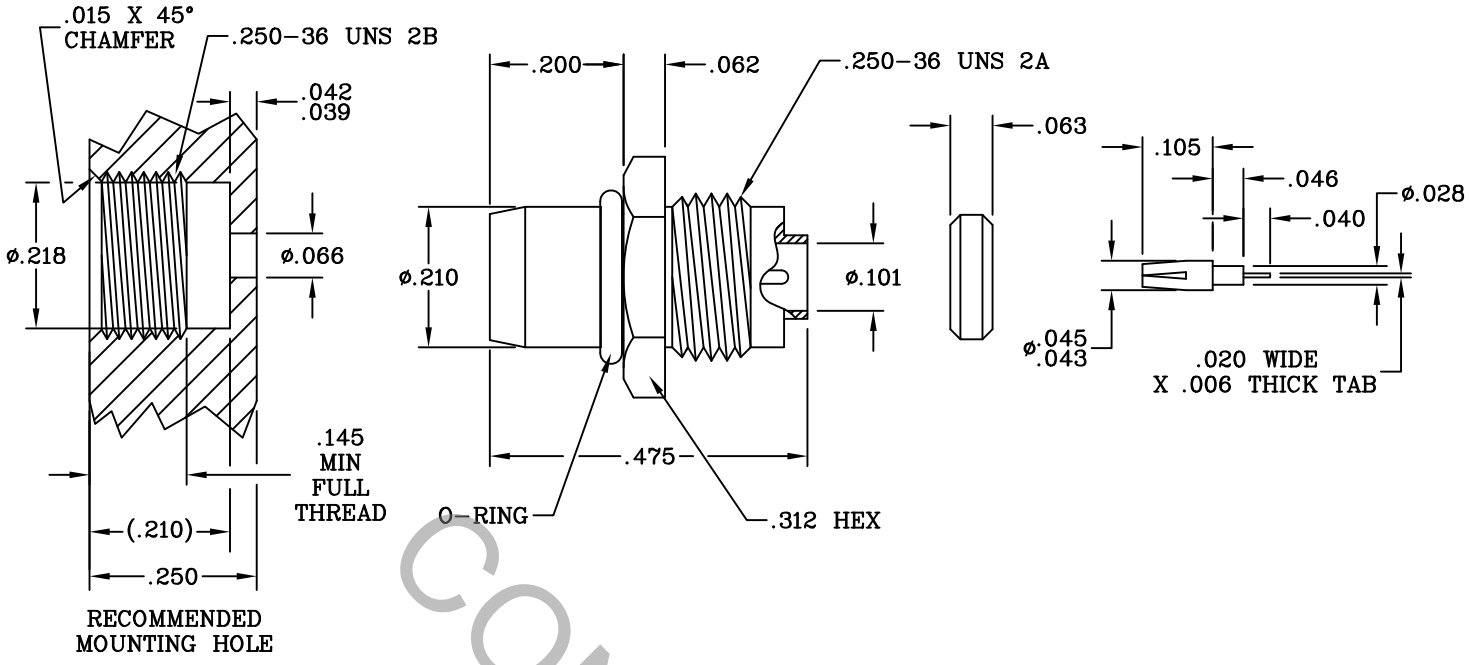
SPECIFICATION CONTROL DRAWING



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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)	.035 dB x $\sqrt{FGHz}$
• BMA INTERFACE GAP (.016 to .030)	.050 dB x $\sqrt{FGHz}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	335
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)	1000
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

This Document contains proprietary and confidential information.

REV.	DCN NO.	DATE	APP.
AA	03-2043	8/20/03	DC
AB	11-1969	1/18/12	TS
AC	13-2510	11/6/13	TS

DIMENSIONS ARE IN INCHES
TOLERANCES

DECIMALS	FRACTIONAL	ANGULAR
.X ± .030 .XX ± .010 .XXX ± .005	± 1/64	X° ± 1° X° X' ± 15'

DRAWN BN DATE 8/20/03

APPROVED DC DATE 8/20/03

CODE IDENT. 2J899

SHEET 1 OF 3

dynawave INCORPORATED
HAVERHILL, MA 01835

TITLE BMA, PLUG
THREAD IN HERMETIC
WITH METAL GASKET AND
SEPARATE TAB CONTACT

DWG. NO. 2830-0431-6804

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT
- MIN. AXIAL FORCE (BOTH) — 6.0 LBS.
- MIN. RADIAL TORQUE — N/A

BMA ENGAGEMENT FORCES
- INSERTION (MAX. OUNCES) — INTERFACE 48.0, REAR CONTACT 32.0
- WITHDRAWAL (MIN. OUNCES) — INTERFACE 2.0, REAR CONTACT 1.0

BMA DURABILITY (MIN. MATING) — 1,000

RECOMMENDED MATING TORQUE — N/A

RECOMMENDED MOUNTING TORQUE — 7–11 IN/LBS.

RECOMMENDED TORQUE TOOL : 28-TORQUE-10 OR 9-98002

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.) (190 VRMS)
HERMETICITY	1×10^{-8} cc/SEC.

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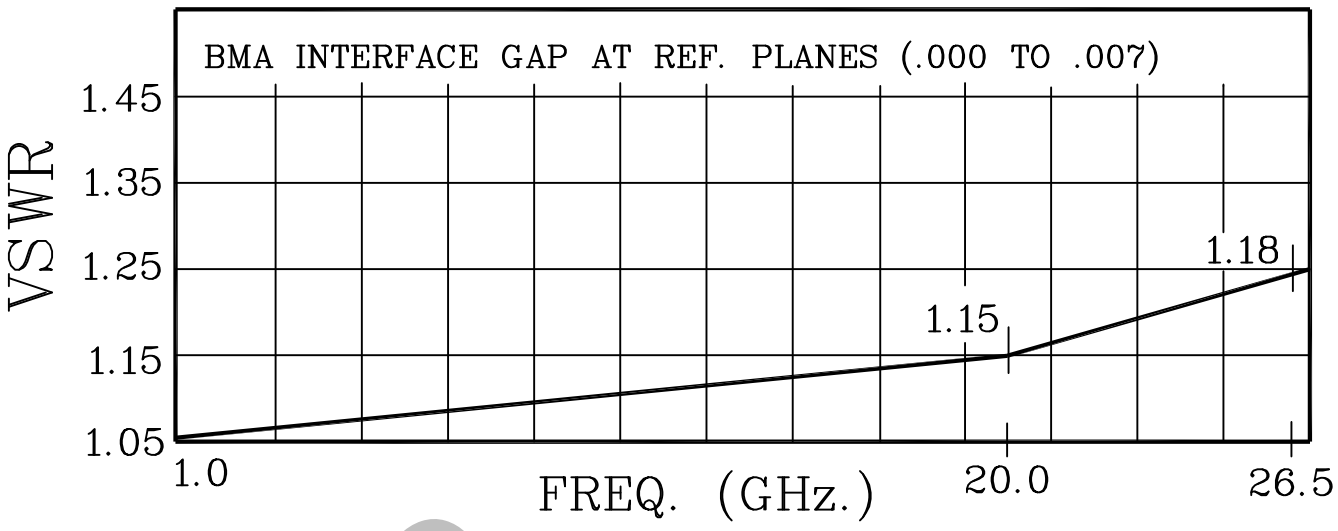
5. MATERIAL

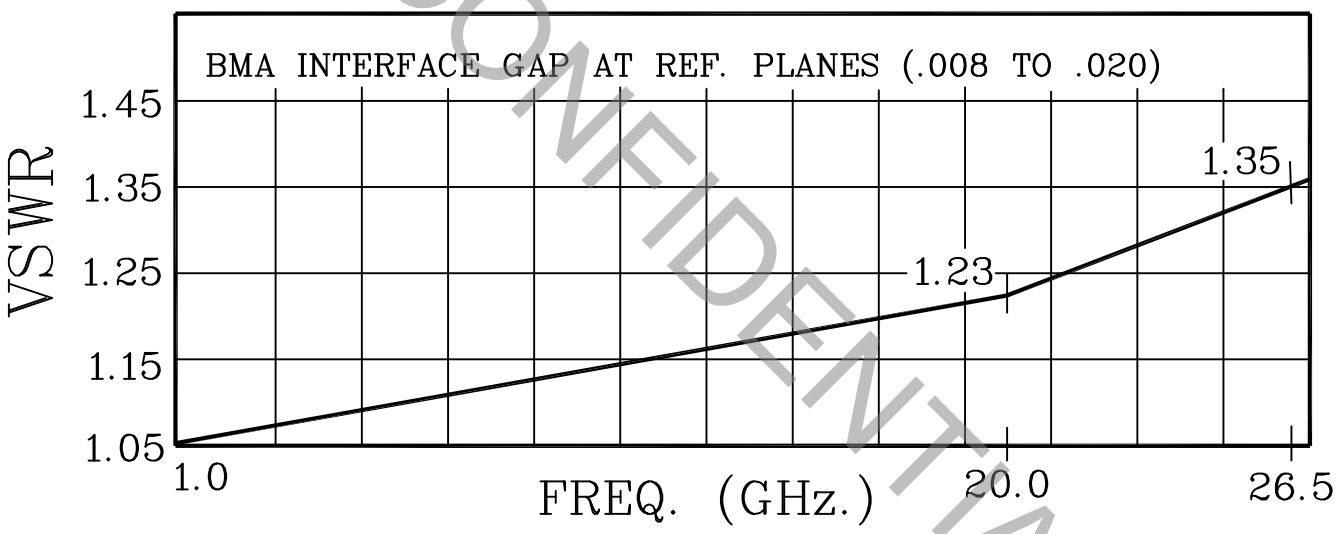
CONNECTOR BODY	STAINLESS STEEL PER ASTM–A–582, TYPE 303, COND. A
CENTER CONTACT	BERYLLIUM COPPER PER ASTM–B–196/B, 196M–03, COPPER ALLOY No. UNS–C17300, TEMPER TD04.
METAL GASKET	COLD ROLLED STEEL
INSULATOR	TEFLON PER ASTM–D–1710–02, TYPE 1, GRADE 1, CLASS B.
O'RING	NITRILE (BUNA–N)
OUTER RING & PIN	KOVAR PER MIL–I–23011
GLASS	CORNING 7070

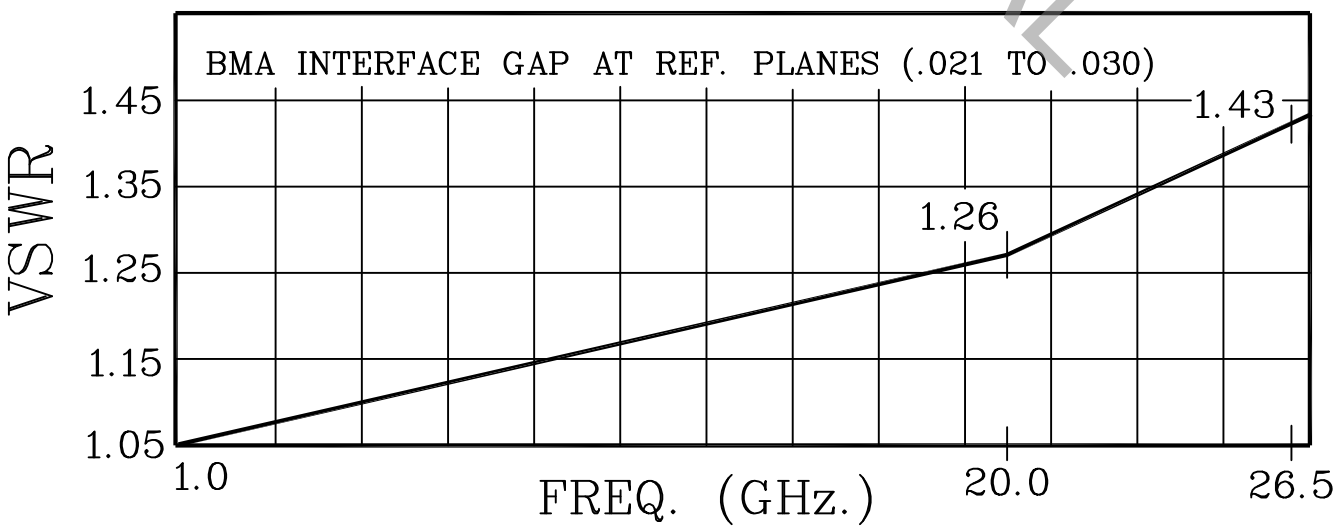
6. FINISH

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.)
KOVAR PIN	GOLD PER ATSM B 488, TYPE I, CODE C, CLASS 1.27 (.000050 MIN. THK.) OVER NICKEL PER SAE–AMS–QQ–N–290 CLASS 1 (.00010 – .000150 THK.) OVER NICKEL (WOODS OR WATTS) (.000010 MIN. THK.)
METAL GASKET	SILVER PLATED PER QQ–S–365
INSULATOR, O'RING	N/A

SPECIFICATION CONTROL DRAWING







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