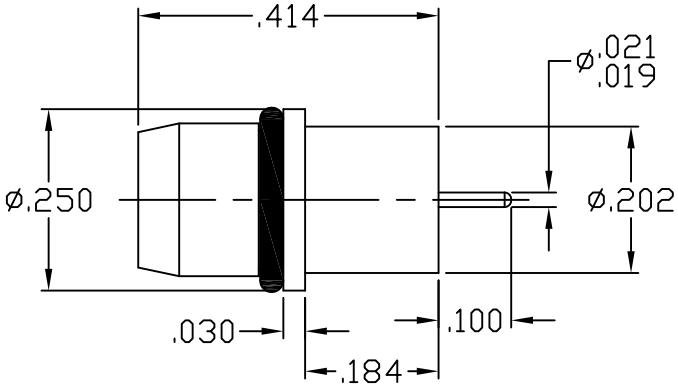
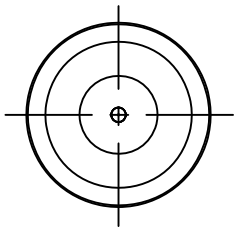
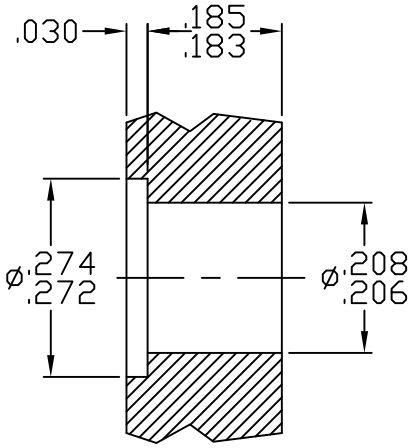
SPECIFICATION CONTROL DRAWING







RECOMMENDED
MOUNTING HOLE

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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)	.040 dB x $\sqrt{FGHz}$
• BMA INTERFACE GAP (.016 to .030)	.060 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)	12.0
• 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	16-1377	3/21/16	TS
BA	16-1384	3/22/16	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	TS	DATE	3/21/16
APPROVED	DC	DATE	3/21/16

TITLE
BMA, PLUG
HERMETICALLY SEALED
SOLDER-IN

CODE IDENT.	SHEET 1 OF 3	DWG. NO.
2J899		2840-0431-6400

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT

- MIN. AXIAL FORCE — 6.0 LBS.
- MIN. RADIAL TORQUE — N/A

BMA ENGAGEMENT FORCES

- INSERTION (MAX. OUNCES) — INTERFACE 32.0
- WITHDRAWAL (MIN. OUNCES) — INTERFACE 2.0

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 + 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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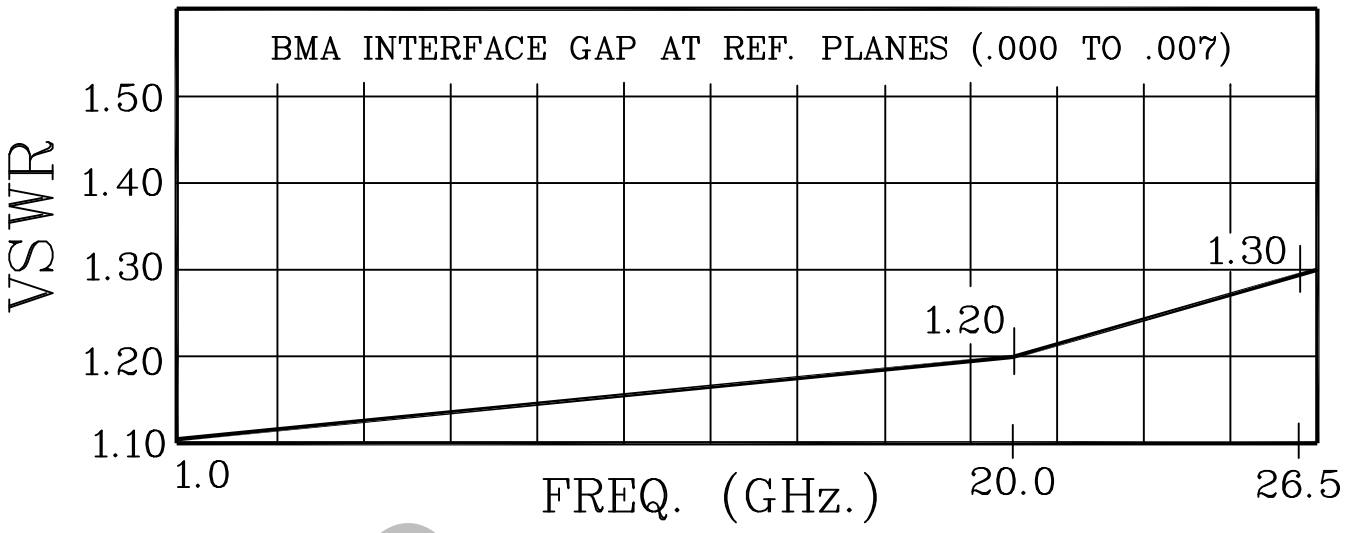
5. MATERIAL

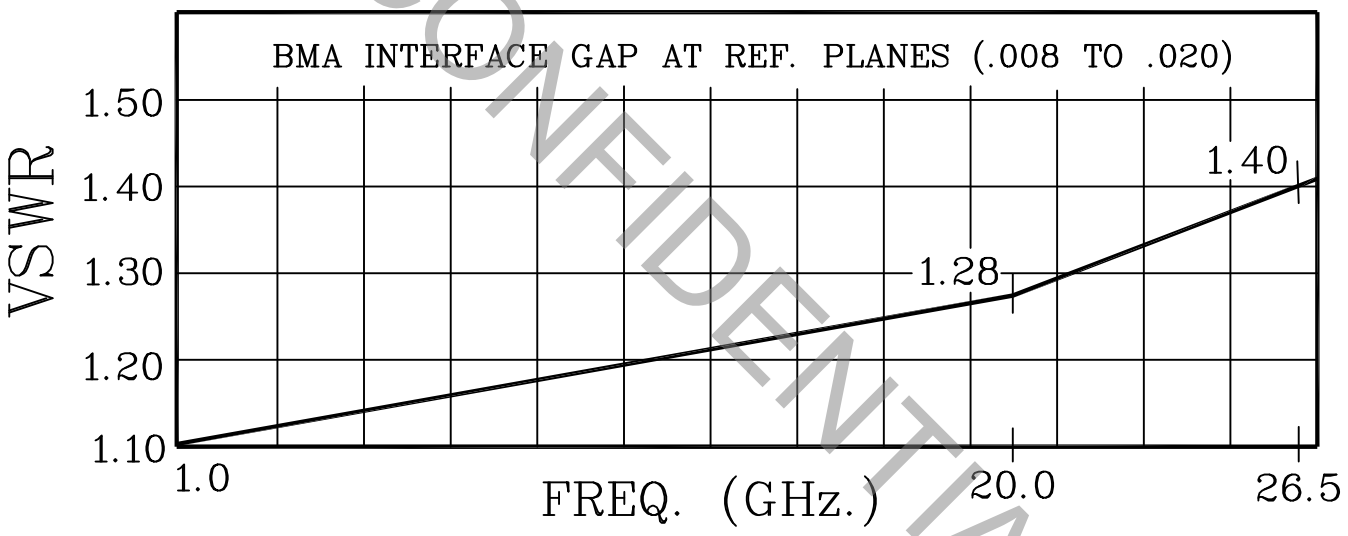
CONNECTOR BODY	STAINLESS STEEL PER ASTM A 582, TYPE 303, COND. A.
CENTER CONTACT	BERYLLIUM COPPER PER ASTM B196/B, 196M–03, COPPER ALLOY No. UNS C17300, TEMPER TD04.
GLASS	CORNING 7070
INSULATOR	TEFLON PER ASTM D 1710–02, TYPE 1, GRADE 1, CLASS B.
O'RING	RUBBER, NITRILE (BUNA–N) PER MIL–P–25732, COLOR BLACK
GASKET	SILICONE RUBBER PER ZZ–R–765, CLASS IIB

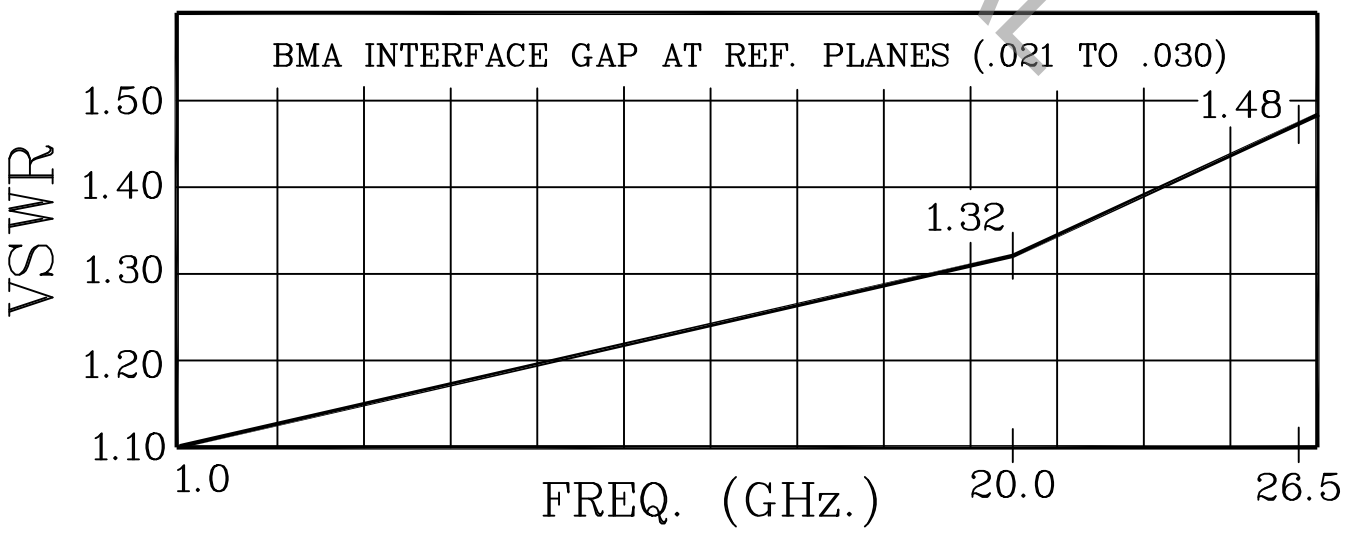
6. FINISH

CONNECTOR BODY	GOLD PER ASTM B 488, TYPE 1, GRADE C, CLASS 0.75 (.000030 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 1, GRADE 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 (.000040 MIN. THK.)
INSULATOR, O'RING, GLASS & GASKET	N/A

SPECIFICATION CONTROL DRAWING







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dynawave® INCORPORATED	Sheet 3 of 3	DWG. NO. 2840-0431-6400	REV. BA