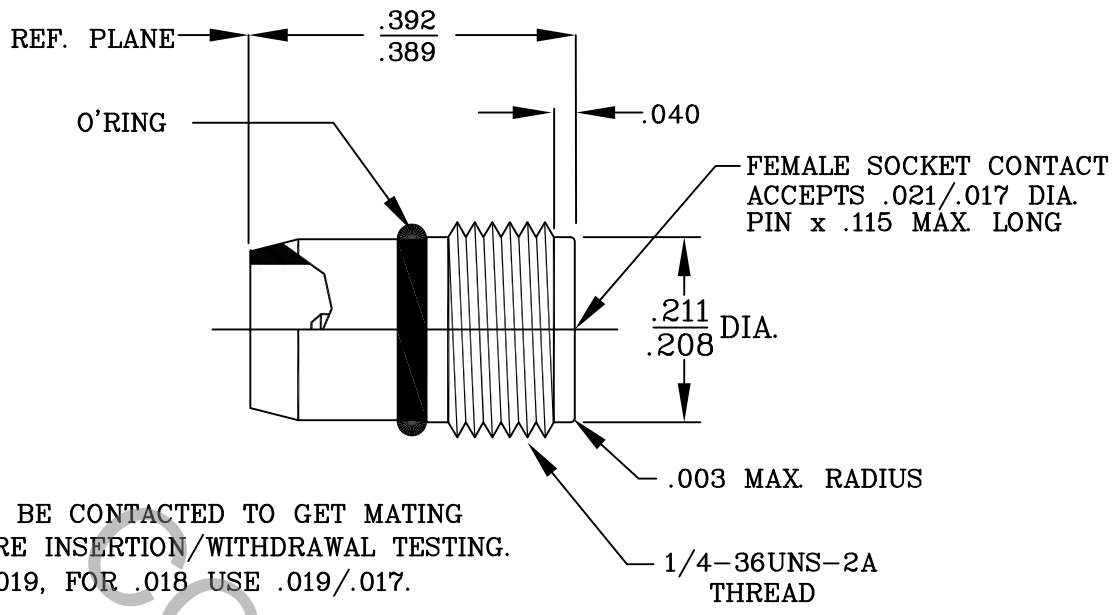
SPECIFICATION CONTROL DRAWING



NOTE:

THE CUSTOMER MUST BE CONTACTED TO GET MATING PART PIN SIZE BEFORE INSERTION/WITHDRAWAL TESTING. FOR .020 USE .021/.019, FOR .018 USE .019/.017.

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1. MATING

INTERFACE DIMENSIONS PER 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)	.035 dB x $\sqrt{FGHz}$
• BMA INTERFACE GAP (.016 to .030)	.050 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.
DA	99-0103	2/2/99	T.S.
FA	02-0167	3/7/02	T.S.
GA	02-0597	6/27/02	DGG
GB	08-1557	5/28/08	DC
GC	11-1539	6/16/11	TS
GD	13-1207	2/11/13	TS
GE	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'

dynawave INCORPORATED
HAVERHILL, MA 01835

DRAWN TS DATE 10/88

APPROVED DGG DATE 10/88

TITLE
BMA, PLUG
FIELD REPLACEABLE
THREADED BARREL

CODE IDENT. 2J899

SHEET 1 OF 3

DWG. NO. 2830-0081-6220

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT
- MIN. AXIAL FORCE (BOTH) ——— 4.5 LBS.
- MIN. RADIAL TORQUE ——— N/A

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

DYNAMATE DURABILITY (MIN. MATING) ——— 1,000

RECOMMENDED MATING TORQUE ——— 7 – 11 IN./LBS.

RECOMMENDED TORQUE TOOL : 28-TORQUE-10

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)

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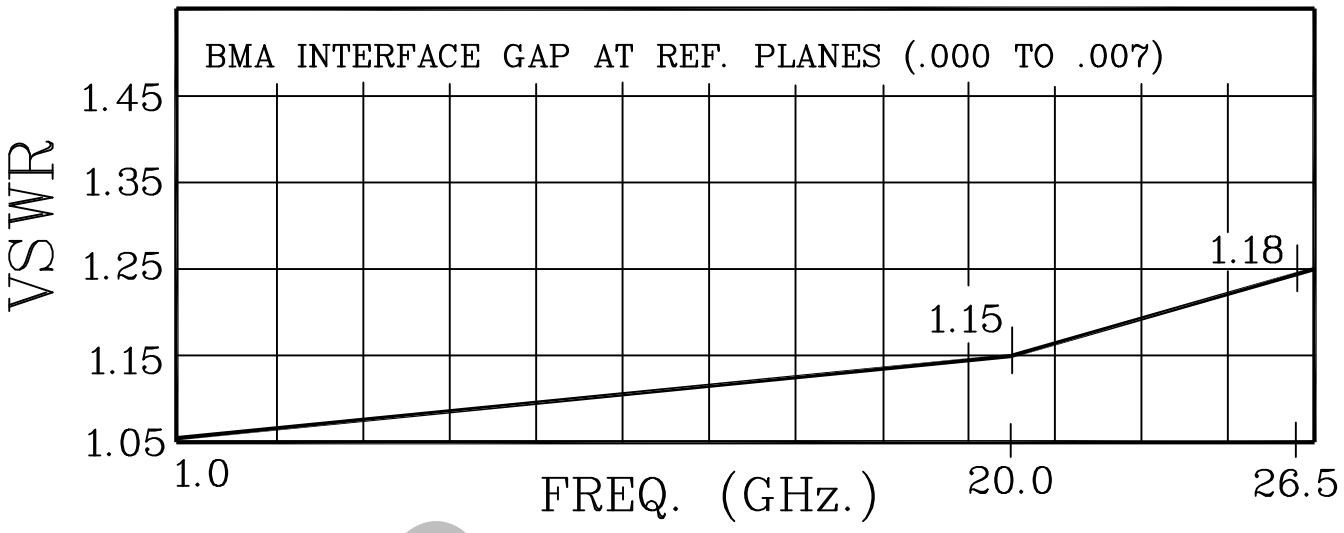
5. MATERIAL

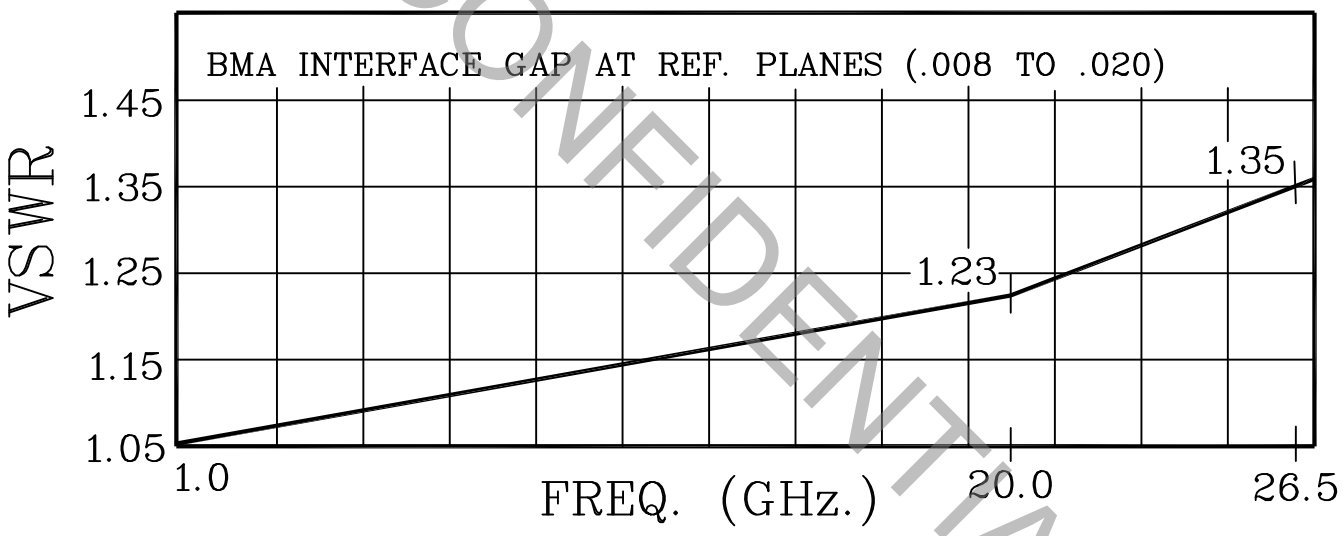
CONNECTOR BODY	STAINLESS STEEL PER ASTM-A-582, TYPE 303, COND. A
CENTER CONTACT	BERYLLIUM COPPER PER ASTM-B-196/B, 196M-03, COPPER ALLOY No. UNS-C17300, TEMPER TD04.
INSULATOR	TEFLON PER ASTM-D-1710-02, TYPE 1, GRADE 1, CLASS B.
O'RING	NITRILE (BUNA-N)

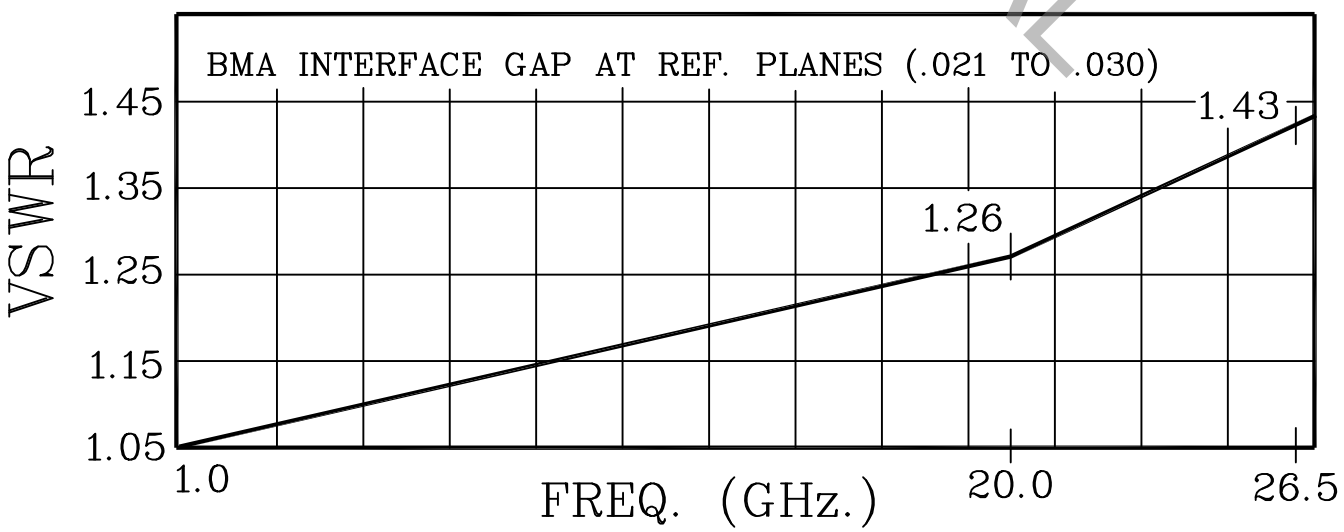
6. FINISH

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.)
INSULATOR	N/A

SPECIFICATION CONTROL DRAWING







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