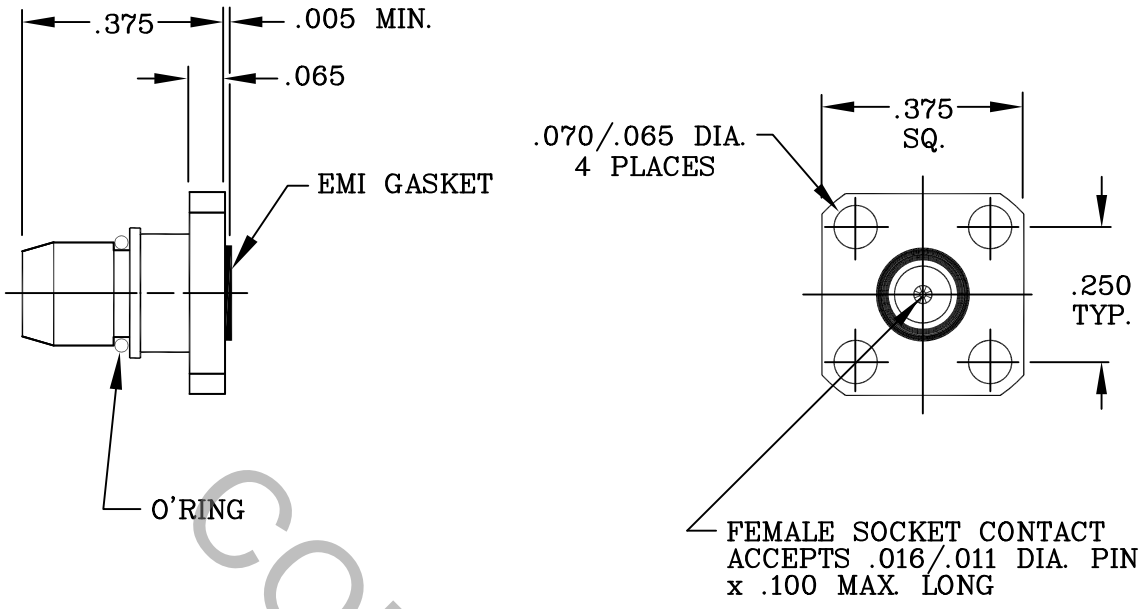
SPECIFICATION CONTROL DRAWING



CONFIDENTIAL

1. MATING — INTERFACE DIMENSIONS PER MIL-STD-348A, Fig. 321.1 AND DYNAWAVE SPECIFICATION MD-28.

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 26.5 GHz
VSWR (MAX.) ❋	SEE SHEET 3
INSERTION LOSS (dB MAX.) CONNECTOR & GLASS SEAL	
• DYNAMATE INTERFACE GAP (.000 TO .015)	.070 dB x $\sqrt{\text{FGHz}}$
• DYNAMATE INTERFACE GAP (.016 TO .030)	.085 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	250
RF LEAKAGE (MIN. dB DOWN)	
• DYNAMATE INTERFACE BOTTOMED (.000 GAP)	100 dB – FGHz
• DYNAMATE INTERFACE GAP (.001 TO .015)	90 dB – FGHz
• DYNAMATE 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

RoHS COMPLIANT

❋ TERMINATED IN A 50 OHM LOAD

REV.	DCN NO.	DATE	APP.
AA	06-1369	3/23/06	DC
AB	10-1509	5/24/10	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 3/23/06

APPROVED DC DATE 3/23/06

TITLE
BMA, PLUG
4 HOLE FLANGE
FIELD REPLACEABLE

CODE IDENT. 2J899

SHEET 1 OF 3

DWG. NO. 2854-0781-6275

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) — INTERFACE 48.0, REAR 32.0
- WITHDRAWAL (MIN. OUNCES) — INTERFACE 2.0, REAR 1.0

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)

CONFIDENTIAL

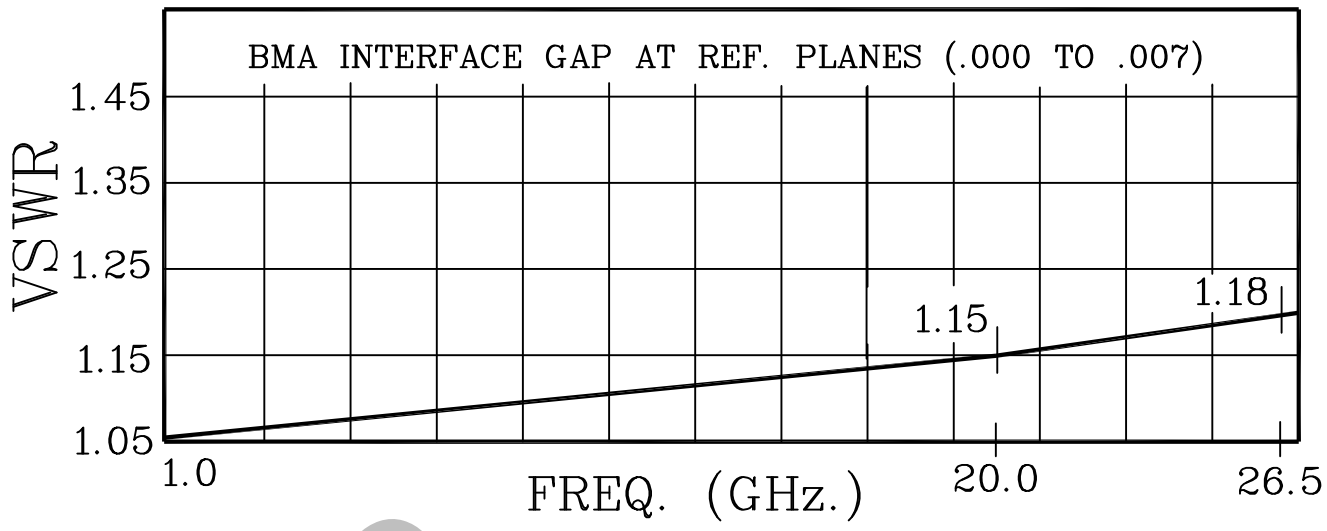
5. MATERIAL

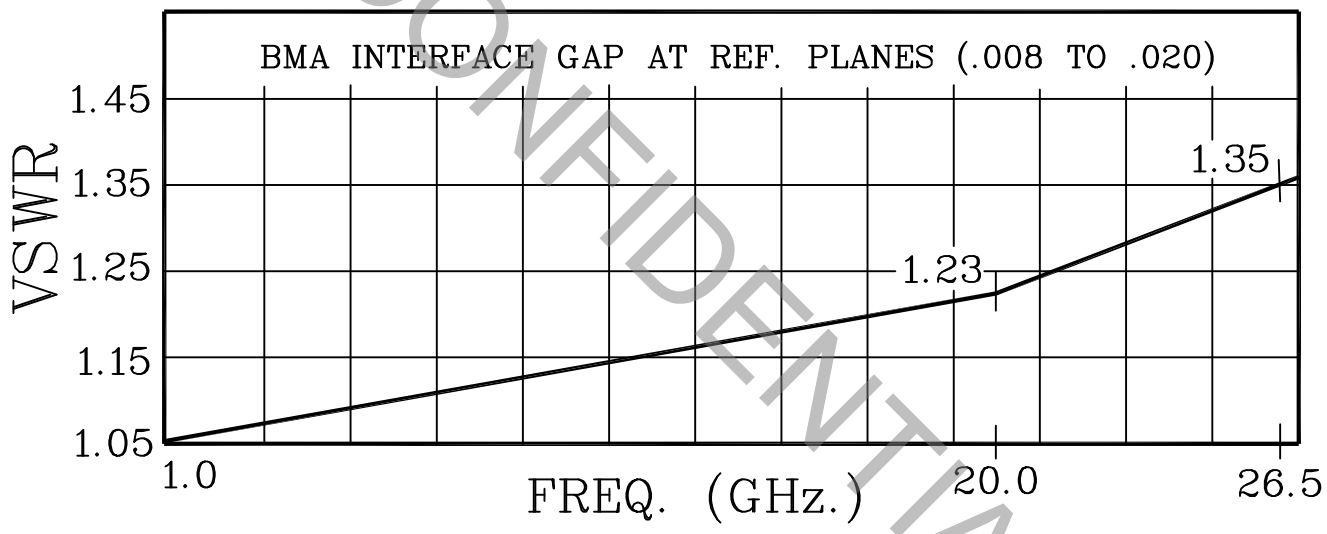
CONNECTOR BODY	STAINLESS STEEL PER ASTM A 582, TYPE 303, COND. A.
CENTER CONTACT	BERYLLIUM COPPER PER ASTM B 196/B, 196M–03, COPPER ALLOY No. UNS C 17300, TEMPER TD04
INSULATOR	TEFLON PER ASTM D 1710–02, TYPE 1, GRADE 1, CLASS B.
O'RING	NITRILE (BUNA–N)
EMI GASKET	SILVER PLATED ALUMINUM IN SILICONE RUBBER

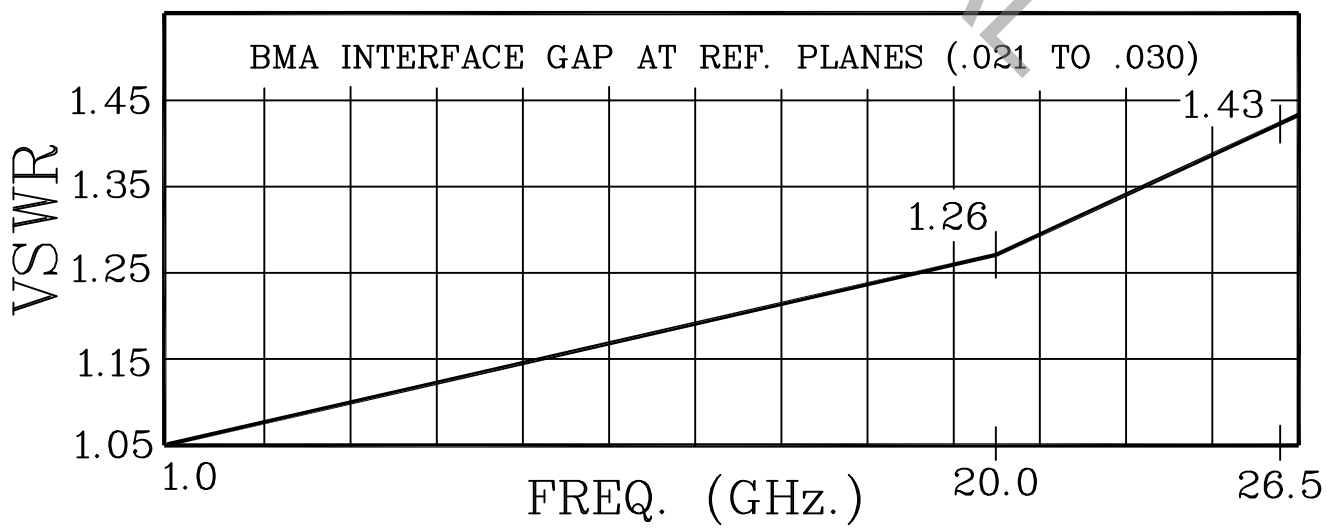
6. FINISH

CONNECTOR BODY	PASSIVATE PER AMS–2700, TYPE 2, CLASS 4
CENTER CONTACT	GOLD PER ASTM B 488, TYPE 1, CODE C, CLASS 2.5 (.00010 MIN. THK.) OVER NICKEL PER QQ–N–290, (.000050 MIN. THK.) OVER COPPER PER MIL–C–14550 (.000010 MIN. THK.) .
INSULATOR, GASKET AND O'RING	N/A

SPECIFICATION CONTROL DRAWING







CONFIDENTIAL

dynawave INCORPORATED	SHEET 3 OF 3	DWG. NO. 2854-0781-6275	REV. AB