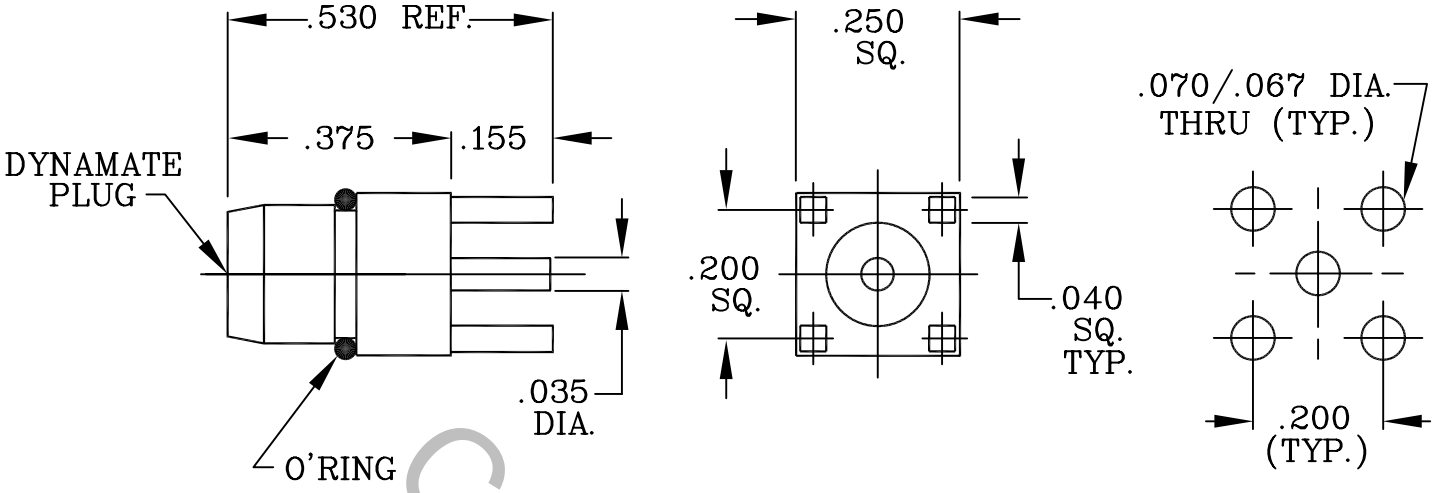
SPECIFICATION CONTROL DRAWING



RECOMMENDED MOUNTING HOLE

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1. MATING INTERFACE DIMENSIONS PER DYNAWAVE SPEC. MD-28 (BMA PLUG)
2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 6.0 GHz.
VSWR (MAX.) ❋	SEE SHEET 3
INSERTION LOSS (dB MAX.)	
• DYNAMATE INTERFACE GAP (.000 TO .015)	.035 dB x $\sqrt{\text{FGHz}}$
• DYNAMATE INTERFACE GAP (.016 TO .030)	.050 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

❋ TERMINATED IN A 50 OHM LOAD

REV.	DCN NO.	DATE	APP.
AA	00-0677	5/18/00	DGG

DIMENSIONS ARE IN INCHES
TOLERANCES

DECIMALS	FRACTIONAL	ANGULAR
.X ± .030 .XX ± .010 .XXX ± .005	± 1/64	X° ± 1°0' X° X' ± 15'

SURFACE ROUGHNESS 63 √ MIL-STD 10.

dynawave INCORPORATED
HAVERHILL, MA. 01835

DRAWN KLF DATE 5/17/00

APPROVED DGG DATE 5/17/00

TITLE
BMA, PLUG
4 POST P.C. MOUNT

CODE IDENT. 2J899

SHEET 1 OF 3

DWG. NO. 2820-0031-2135

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT
- MIN. AXIAL FORCE — 6.0 LBS.
- MIN. RADIAL TORQUE — 4.0 IN.OZ.

DYNAMATE ENGAGEMENT FORCES
- INSERTION (MAX. OUNCES) — N/A
- WITHDRAWAL (MIN. OUNCES) — N/A

DYNAMATE 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)

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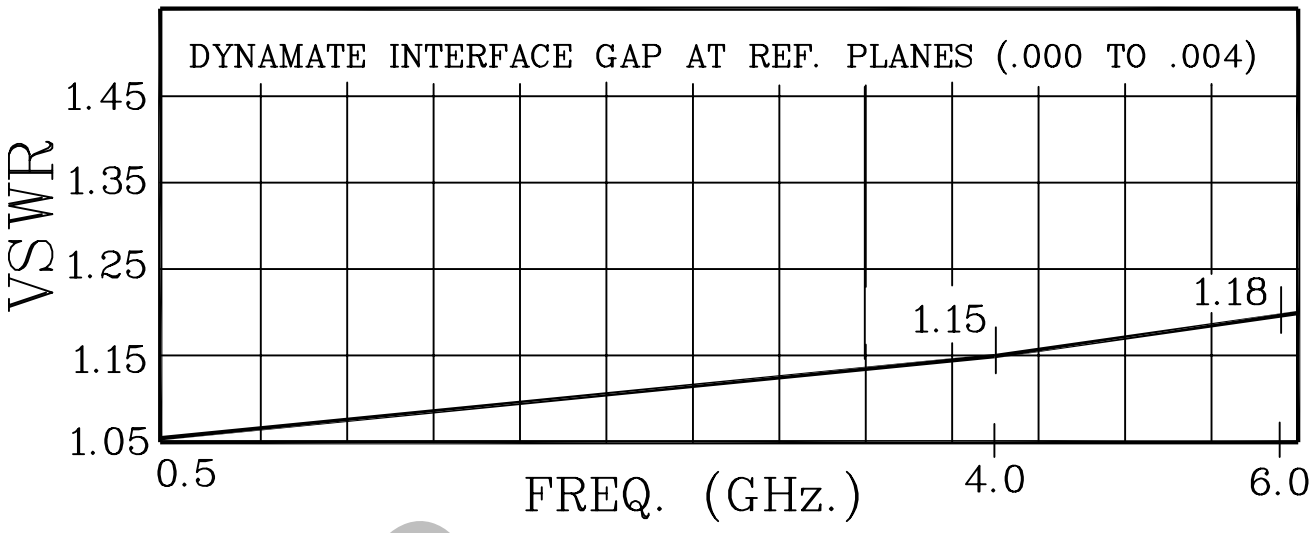
5. MATERIAL

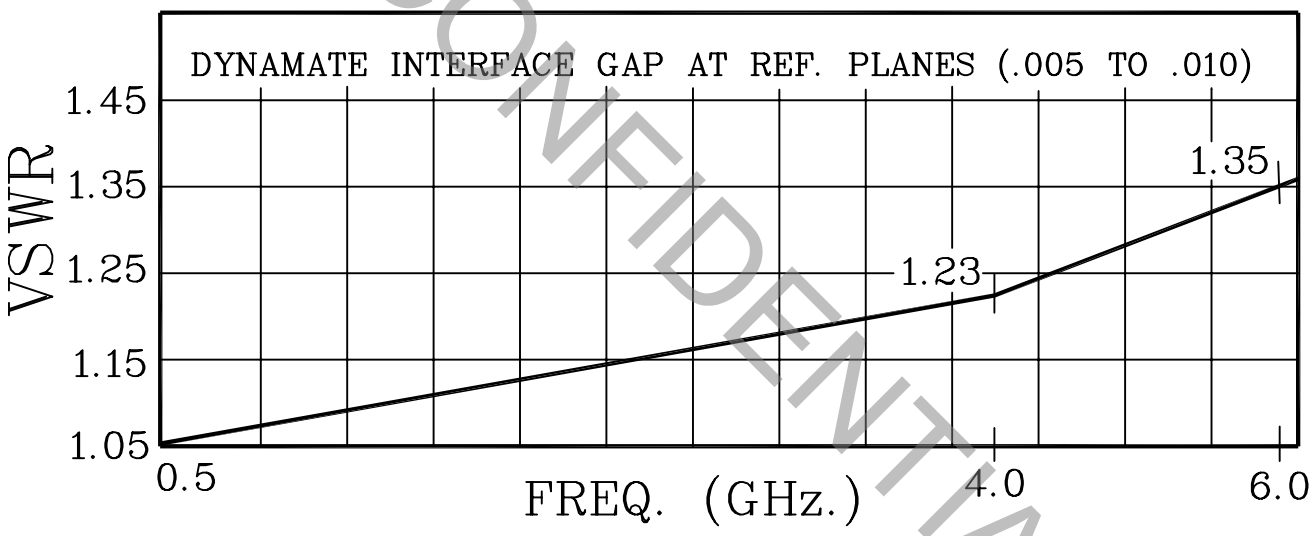
CONNECTOR BODY	BRASS PER ASTM B16, TEMPER H02, ALLOY C36000.
CENTER CONTACT	BERYLLIUM COPPER PER ASTM B196, CU ALLOY UNS C17300
INSULATOR	TEFLON PER ASTM D 4894 TEMPER TD04.
O'RING	**NITRILE (BUNA–N)**

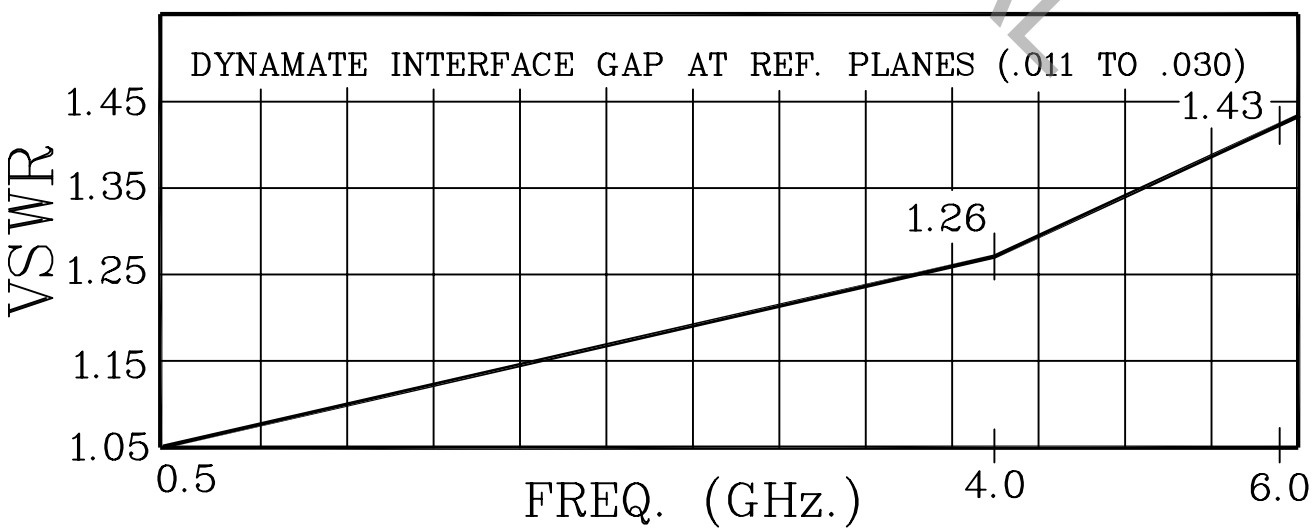
6. FINISH

CONNECTOR BODY	GOLD PER MIL–G–45204, TYPE II, GRADE C, CLASS 1, OVER NICKEL PER QQ–N–290, (00010 MIN. THK.)
CENTER CONTACT	GOLD PER MIL–G–45204, TYPE II, GRADE C, CLASS 2, (.000100 MINIMUM THICKNESS) OVER NICKEL PER QQ–N–290, CLASS 1 (.000100 MINIMUM THICKNESS) OVER COPPER PER MIL–C–14550 (.000010 MINIMUM THICKNESS).
INSULATOR AND O'RING	N/A

SPECIFICATION CONTROL DRAWING







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dynawave INCORPORATED	SHEET 3 OF 3	DWG. NO. 2820-0031-2135	REV. AA