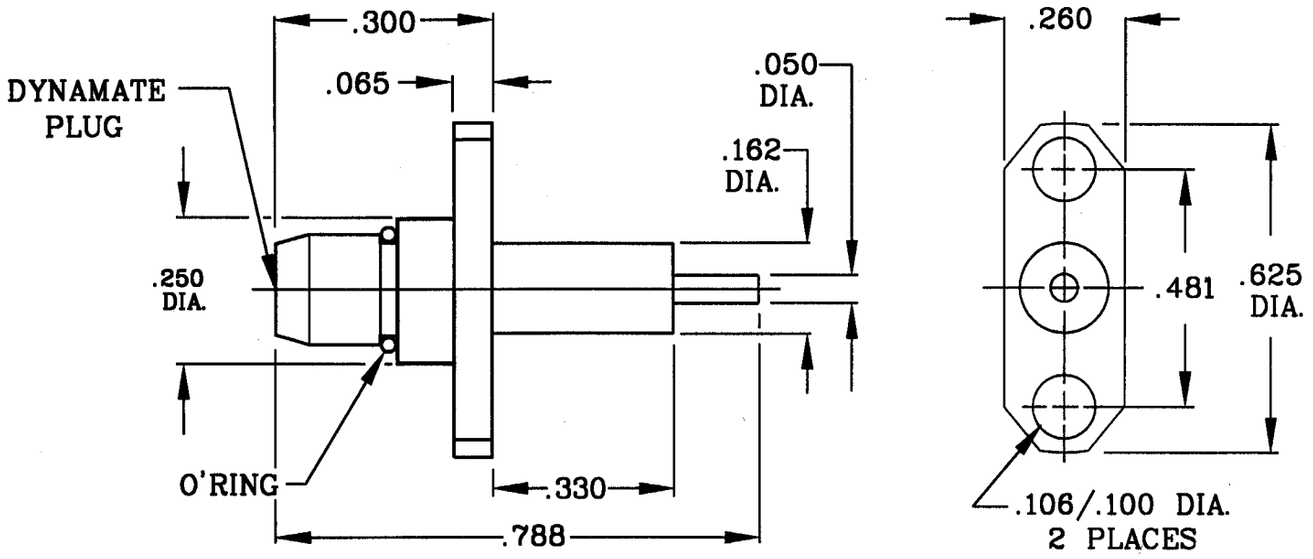
SPECIFICATION CONTROL DRAWING



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

FREQUENCY RANGE GHz	DC TO 20.0 GHz
VSWR (MAX.) *	SEE SHEET 3
INSERTION LOSS (dB MAX.)	
• DYNAMATE INTERFACE GAP (.000 TO .015)	.035 dB x $\sqrt{FGHz}$
• DYNAMATE INTERFACE GAP (.016 TO .030)	.050 dB x $\sqrt{FGHz}$
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

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REV.	DCN NO.	DATE	APP.
AA	03-1502	4-15-03	[illegible]

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 G.E. DATE 04/15/03

APPROVED [illegible] DATE 4-15-03

TITLE
DYNAMATE, PLUG
2 HOLE FLANGE
TERMINAL CONTACT

CODE IDENT. 2J899

SHEET 1 OF 3

DWG. NO. 2852-0031-6250

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT	
● MIN. AXIAL FORCE	6.0 LBS.
● MIN. RADIAL TORQUE	N/A
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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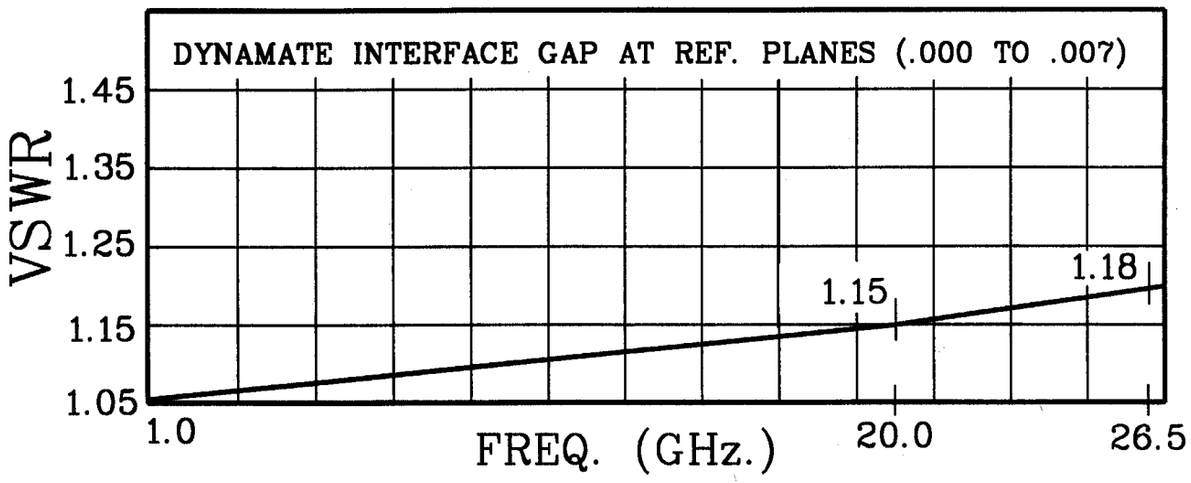
5. MATERIAL

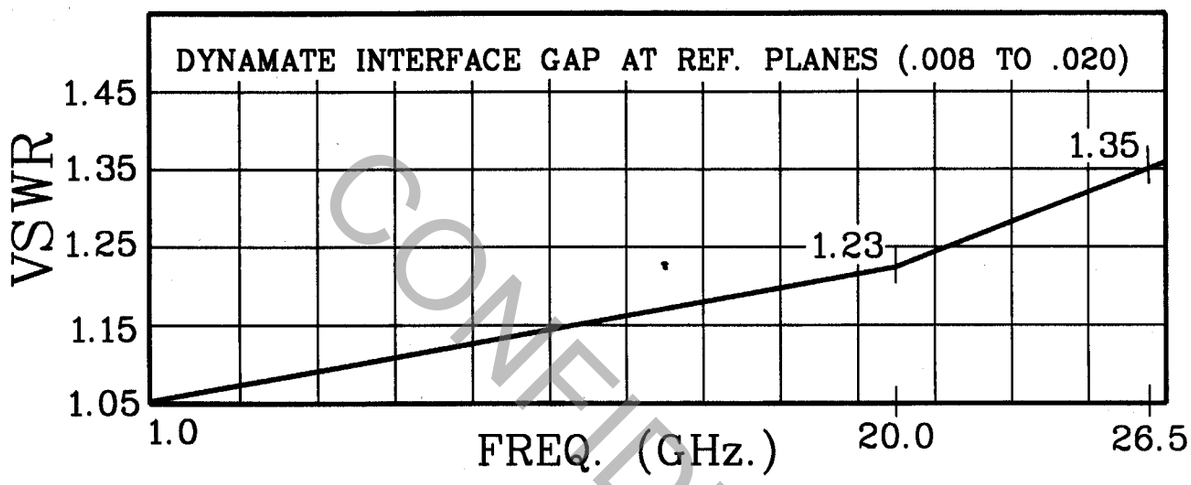
CONNECTOR BODY	STAINLESS STEEL PER ASTM A 582, TYPE 303, COND. A.
CENTER CONTACT	BERYLLIUM COPPER PER ASTM B196, CU ALLOY UNS C17300
INSULATOR	TEFLON PER ASTM D 4894 TEMPER TD04.
O'RING	NITRILE (BUNA–N)

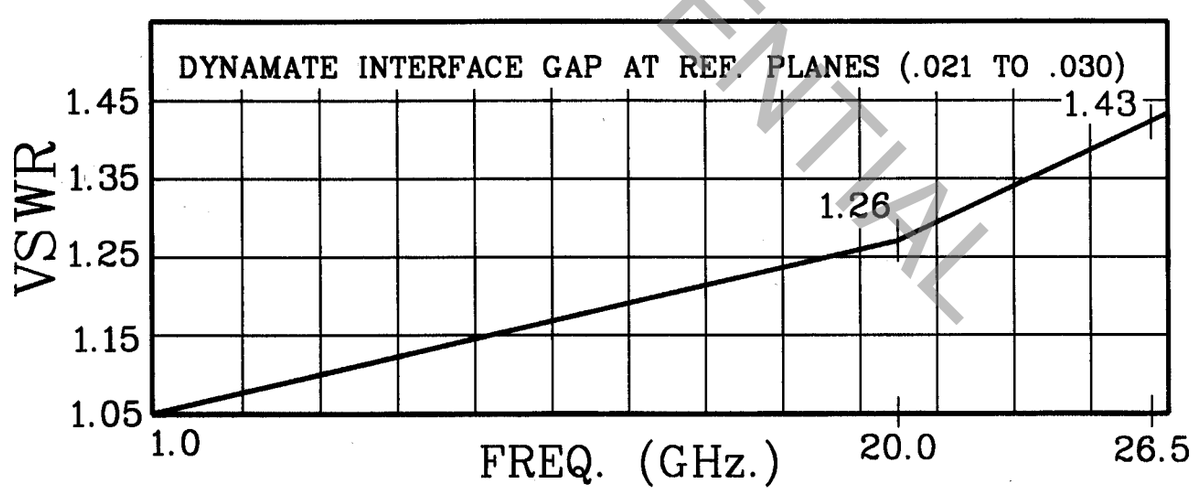
6. FINISH

CONNECTOR BODY	PASSIVATE PER QQ–P–35A, TYPE I.
CENTER CONTACT	GOLD PER ATSM B 488, TYPE I, CODE C, CLASS 2.5 (.000100 MINIMUM THICKNESS) OVER NICKEL PER QQ–N–290, (.000050 MINIMUM THICKNESS) OVER COPPER PER MIL–C–14550 (.000010 MINIMUM THICKNESS).
INSULATOR AND O'RING	N/A

SPECIFICATION CONTROL DRAWING







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