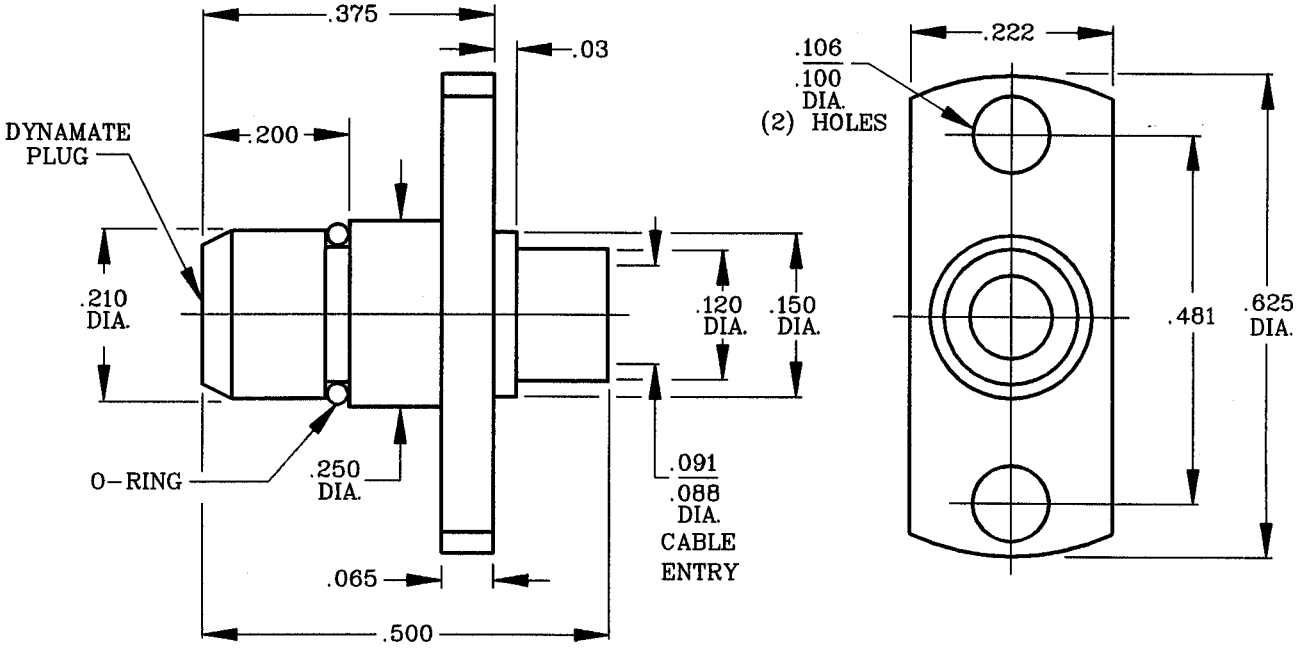
SPECIFICATION CONTROL DRAWING



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

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 26.5 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)	
● DTNAMATE INTERFACE GAP 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.
–	890	10/92	CT
A	979	6/93	M.B.

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
GEORGETOWN MA. 01833

DRAWN CT DATE 10/92

APPROVED DGG DATE 10/92

TITLE
DYNAMATE PLUG
2 HOLE FLANGE
TO .085 S.R. CABLE

CODE IDENT. 2J899

SHEET 1 OF 3

DWG. NO. 2852-8521-6458

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT

- MIN. AXIAL FORCE — 4.5 LBS.
- MIN. RADIAL TORQUE — N/A

DYNAMATE ENGAGEMENT FORCES

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

DYNAMATE DURIABILITY (MIN. MATING) — 1000

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)

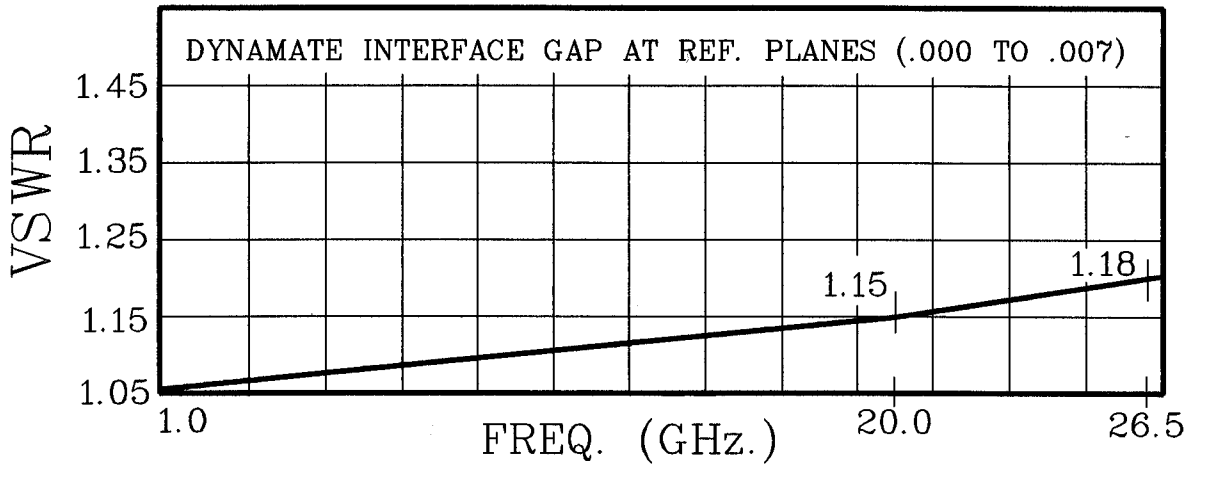
5. MATERIAL

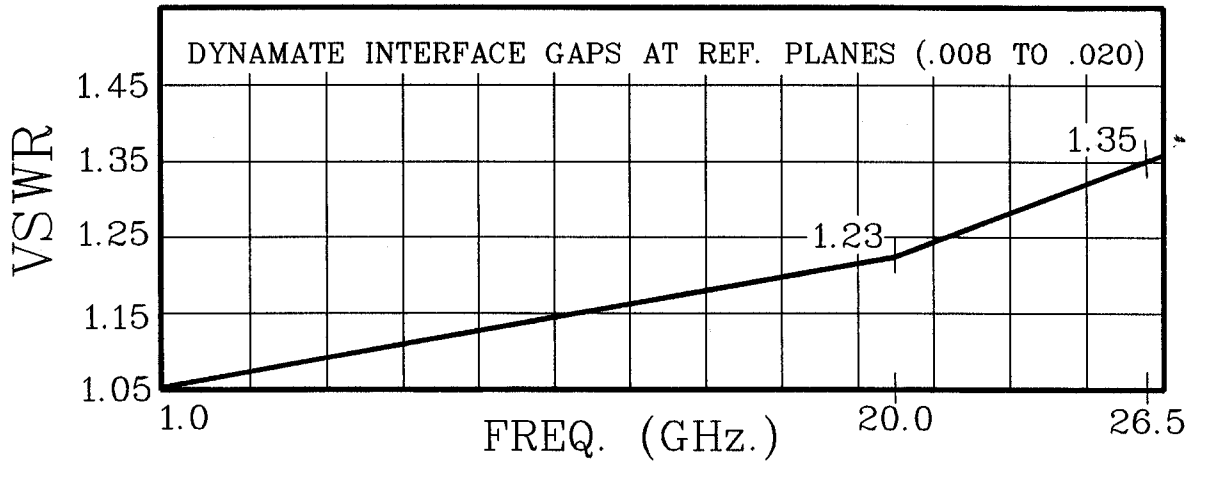
CONNECTOR BODY	STAINLESS STEEL PER ASTM A 582, TYPE 303, COND.A
CENTER CONTACT	BERYLLIUM COPPER PER QQ–C–530, ALLOY 173, COND. HT
INSULATOR	TEFLON PER D 1457.
O,RING	NITRILE (BUNA–N)

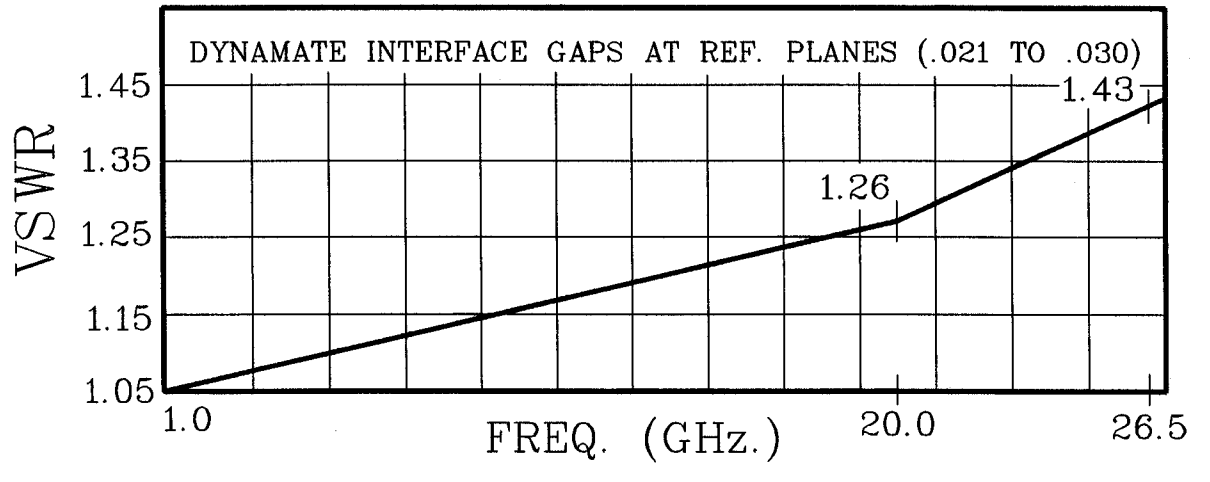
6. FINISH

CONNECTOR BODY	GOLD PER MIL–G–45204, TYPE I, GRADE C, CLASS 1 OVER NICKEL PER MIL–P–27418
CENTER CONTACT & GLASS SEAL CONTACT & BODY	GOLD PER MIL–G–45204, TYPE II, GRADE C, CLASS 2 OVER COPPER PER MIL–C–14550
INSULATOR & O–RING	N/A

SPECIFICATION CONTROL DRAWING







dynawave INCORPORATED	Sheet 3 of 3	DWG. NO. 2852-8521-6458	REV. A