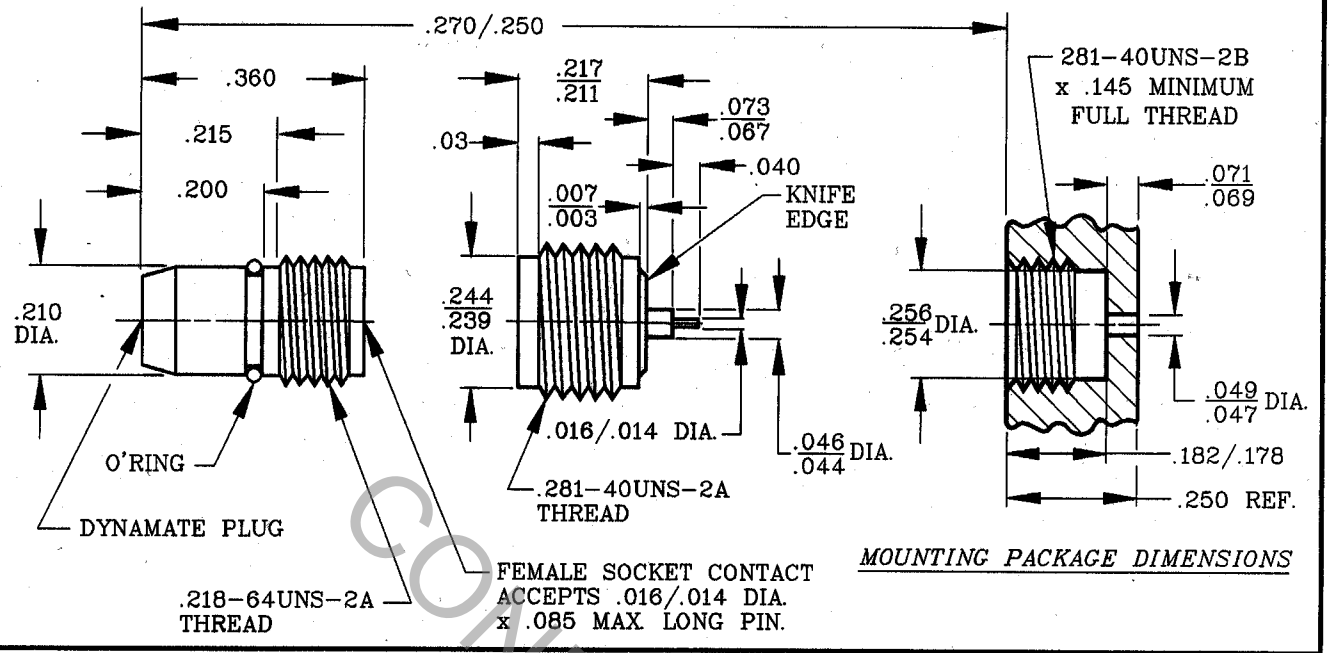
SPECIFICATION CONTROL DRAWING



MOUNTING PACKAGE DIMENSIONS

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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)	.040 dB x $\sqrt{FGHz}$
• DYNAMATE INTERFACE GAP (.016 to .030)	.060 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)	12.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

✸ TERMINATED IN A 50 OHM LOAD

REV.	DCN NO.	DATE	APP.
−	550	6/88	DGG
A	676	5/89	T.S.

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 TS DATE 6/88

APPROVED DGG DATE 6/88

TITLE DYNAMATE, PLUG FIELD REPLACEABLE (2 PC.) HERMETICALLY SEALED SPARK PLUG, KNIFE EDGE

CODE IDENT. 2J899

SHEET 1 of 4

DWG. NO. 2833-0431-6216

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT and GLASS PIN

- MIN. AXIAL FORCE (BOTH) — 6.0 LBS.
- MIN. RADIAL TORQUE (GLASS PIN) — 1.5 IN. OZ.

DYNAMATE ENGAGEMENT FORCES

- INSERTION (MAX. OUNCES) — 48.0
- WITHDRAWAL (MIN. OUNCES) — 4.0

DYNAMATE DURABILITY (MIN. MATING) — 1000

RECOMMENDED MATING FORCE

- DYNAMATE CONNECTOR/GLASS SEAL ASSY. (AS A PAIR) INTO MIC PACKAGE — 27–29 IN. LBS.
- DYNAMATE CONNECTOR REVERSE TORQUE — 10 IN. LBS. MIN.

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)
HERMETICITY	1×10^{-8} cc/SEC.

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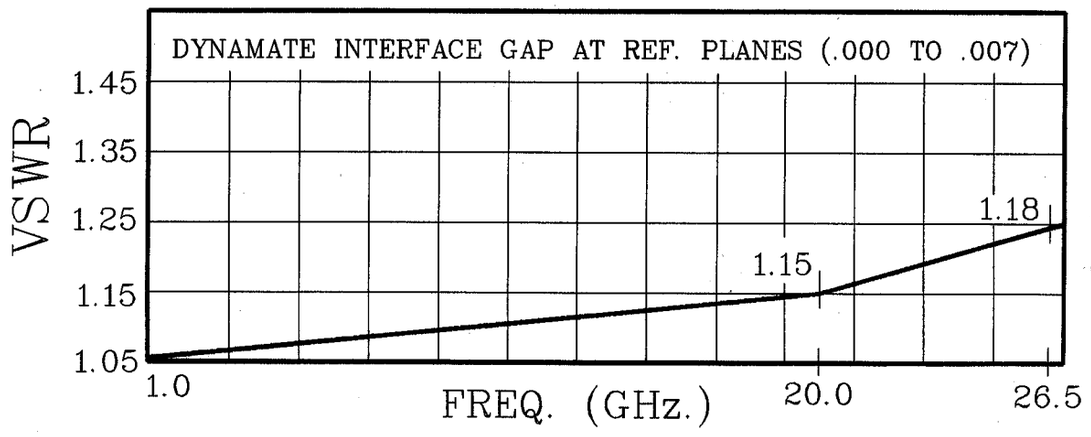
5. MATERIAL

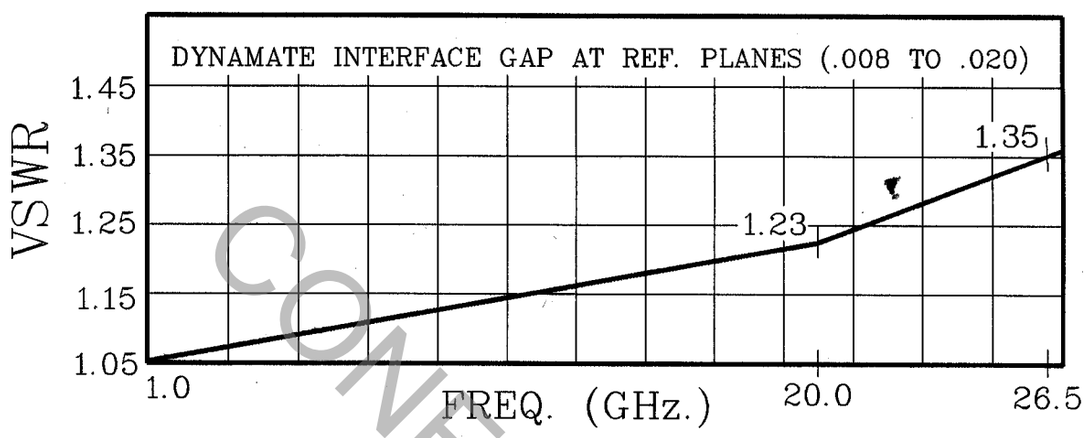
CONNECTOR BODY	STAINLESS STEEL PER AMS–5640, TYPE 303, COND. A
CENTER CONTACT	BERYLLIUM COPPER PER QQ–C–530, ALLOY 173 COND. HT
INSULATOR	TEFLON PER MIL–P–19468, AND L–P–403, TYPE I
GLASS	CORNING 7070
GLASS, MALE PIN	KOVAR
GASKET	SILICON ELASTOMER
O'RING	SILICONE RUBBER PER ZZ–R–76, CLASS IIB, GRADE 50 OR 60.

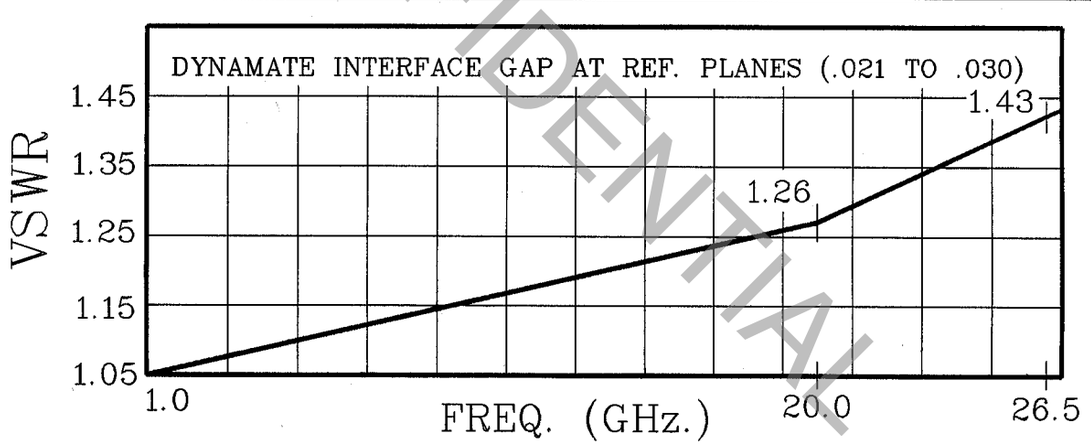
6. FINISH

GLASS BODY AND PIN	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 Thickess).
CONNECTOR BODY	PASSIVATE PER QQ–P–35A, TYPE I.
GASKET AND O'RING	N/A

SPECIFICATION CONTROL DRAWING







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