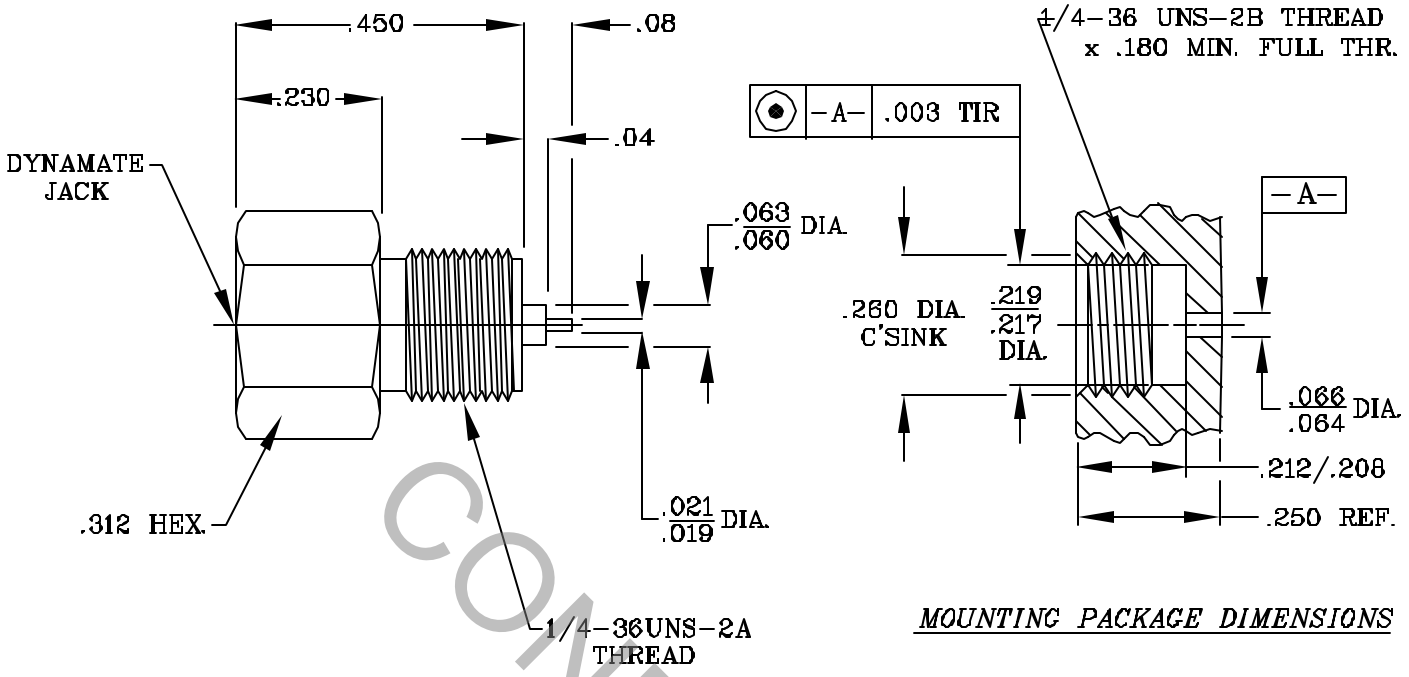
SPECIFICATION CONTROL DRAWING



MOUNTING PACKAGE DIMENSIONS

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1. MATING — INTERFACE DIMENSIONS PER DYNAWAVE MD-29 (DYNAMATE, JACK)
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)	.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)	6.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

❁ TERMINATED IN A 50 OHM LOAD

REV.	DCN NO.	DATE	APP.
AA	03-1732		

DIMENSIONS ARE IN INCHES
TOLERANCES
DECIMALS: .X ±.03D, .XX ±.01D, .XXX ±.005
FRACTIONAL: 1/64
ANGULAR: X° ±1°0', X°.X ±15'
SURFACE ROUGHNESS 63 √ MIL-STD 10.

dynawave INCORPORATED
HAVERHILL MA. 01835

DRAWN DATE

APPROVED DATE

TITLE
DYNAMATE, JACK
SCREW-IN
.020 DIA. STRAIGHT TERMINAL

CODE IDENT. 2J899

Sheet 1 of 3

DWG. NO. 2930-0031-6421

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT

- MIN. AXIAL FORCE (BOTH) ——— 4.5 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

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.) (250 VRMS)
HERMETICITY	1×10^{-8} cc/SEC.

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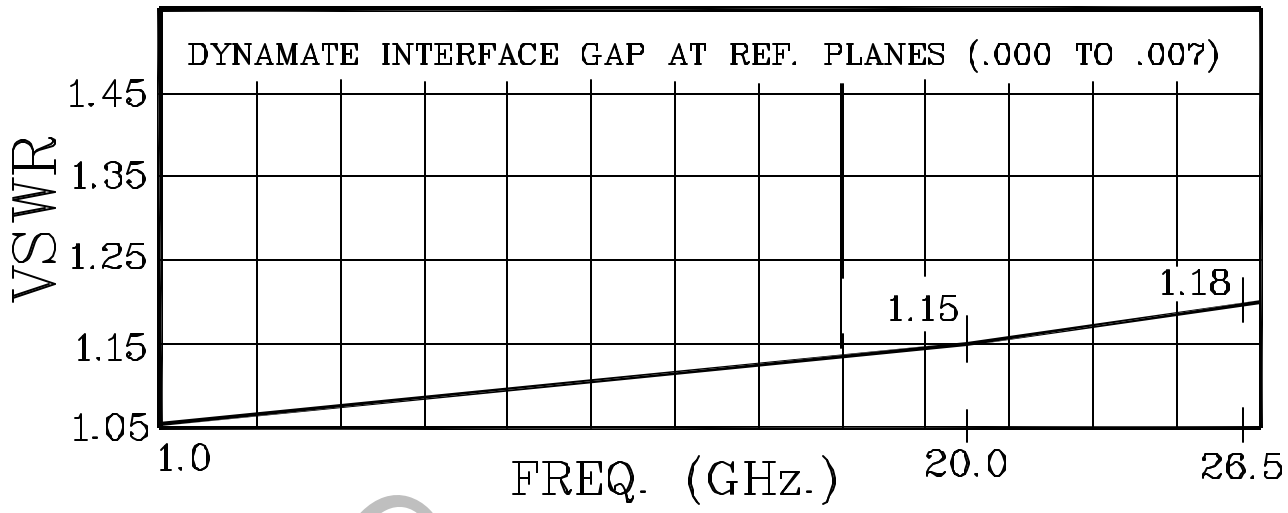
5. MATERIAL

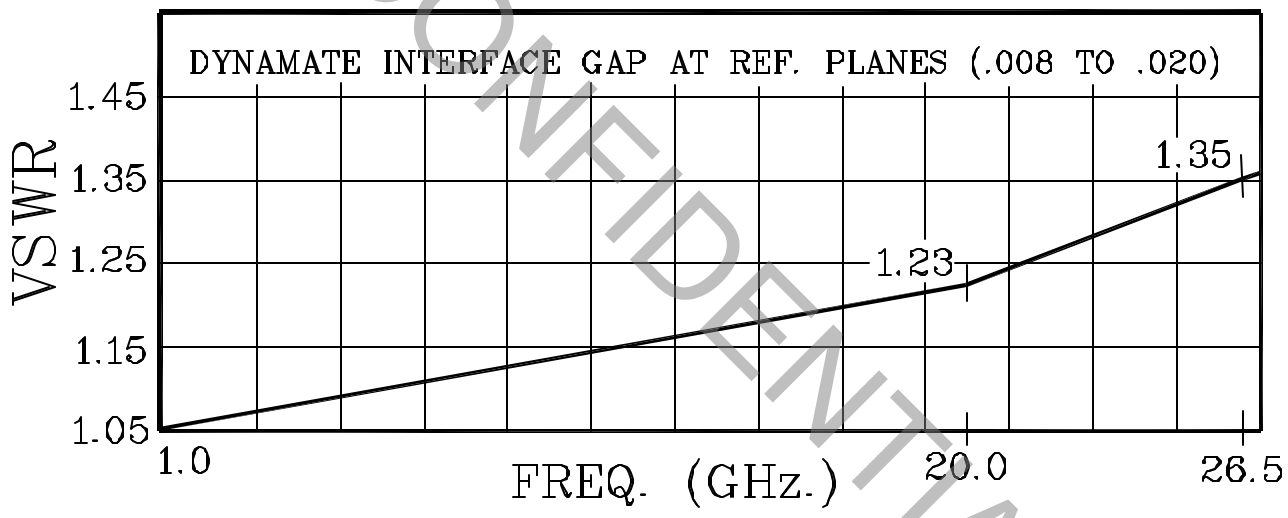
CONNECTOR BODY AND COIL SPRINGS	STAINLESS STEEL PER ASTM A 581, TYPE 303, COND. A.
CENTER CONTACT	BERYLLIUM COPPER PER ASTM B196–90, COPPER ALLOY No. UNS C17300, TEMPER TD04.
CONTACT HOOD	BRASS PER ASTM B16, TEMPER H02, ALLOY C36000
INSULATOR	TEFLON PER ASTM D 4894–91.

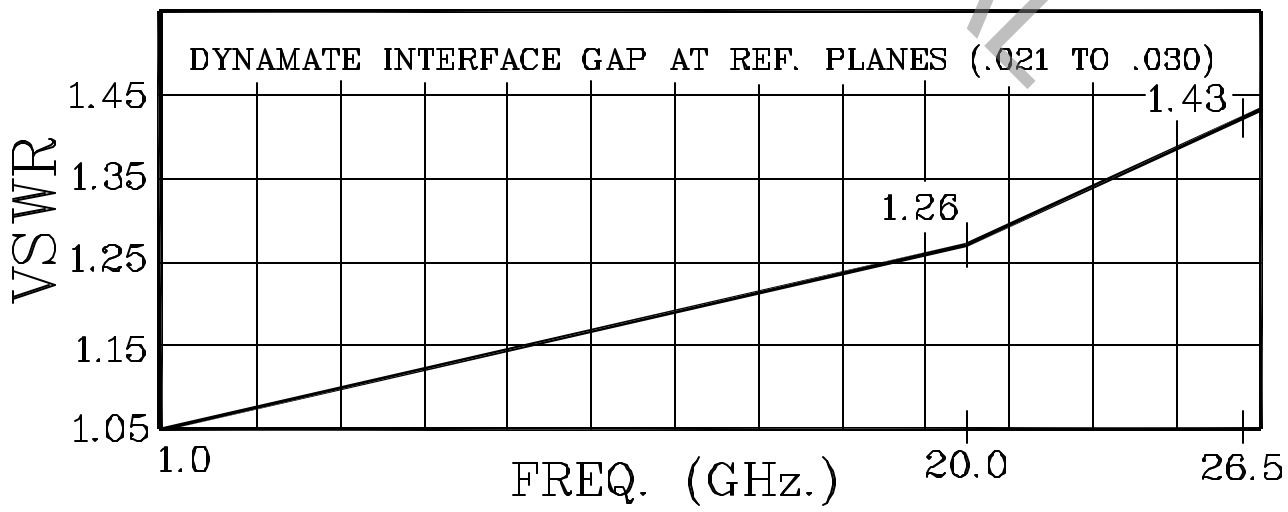
6. FINISH

CONNECTOR BODY	GOLD PER ATSM B 488, TYPE I, CODE C, CLASS 1.25 (.000050 MIN. THK.) OVER NICKEL PER QQ–N–290, CLASS I (.000150 MIN. THK.) OVER NICKEL (WOODS OR WATTS). (.000010 MIN. THK.) : BASE METAL IS STAINLESS STEEL
COIL SPRINGS	PASSIVATE PER QQ–P–35C, TYPE VI
CENTER CONTACT ASSEMBLY	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).
INSULATOR	N/A

SPECIFICATION CONTROL DRAWING







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