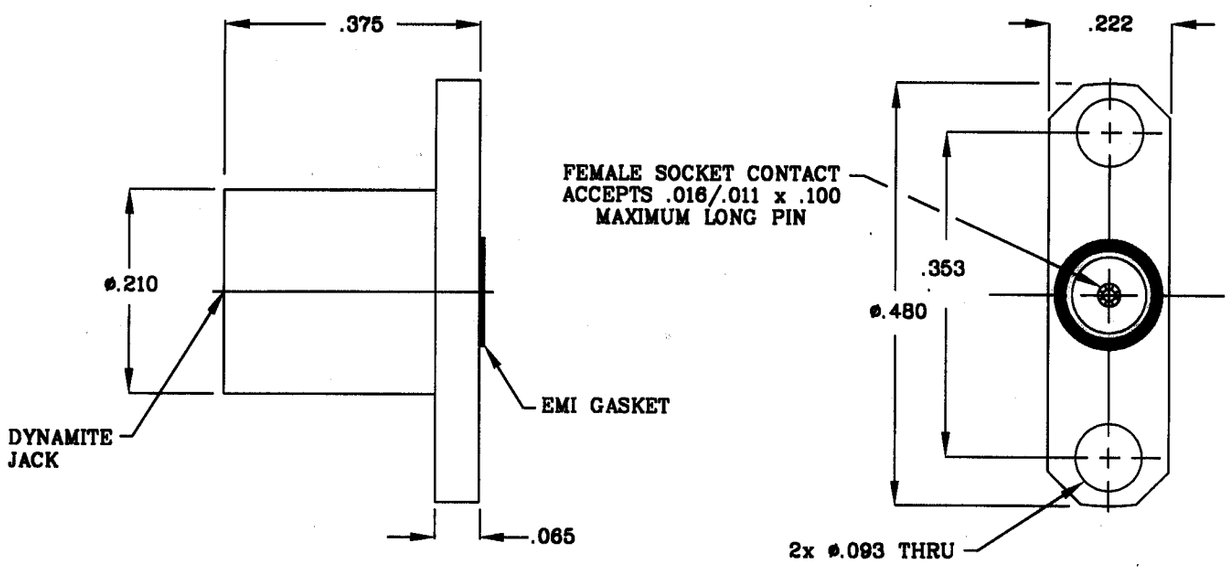
SPECIFICATION CONTROL DRAWING



1. MATING — INTERFACE DIMENSIONS PER DYNAWAVE SPECIFICATION MD-27 (DYNAMITE, JACK)

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 38.0 GHz.
VSWR (MAX.) ✱	SEE SHEET 3
INSERTION LOSS (dB MAX.)	
• DYNAMITE INTERFACE GAP (.000 TO .010)	.045 dB x $\sqrt{FGHz}$.
• DYNAMITE INTERFACE GAP (.011 TO .020)	.060 dB x $\sqrt{FGHz}$.
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	250
RF LEAKAGE (MIN. dB DOWN)	
• DYNAMITE INTERFACE BOTTOMED (.000 GAP)	100 dB - FGHz
• DYNAMITE INTERFACE GAP (.001 TO .010)	90 dB - FGHz
• DYNAMITE INTERFACE GAP (.011 TO .020)	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	03-1003	01/02/03	BN

DIMENSIONS ARE IN INCHES
TOLERANCES

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

dynawave INCORPORATED
GEORGETOWN MA. 01833

DRAWN G.E. DATE 01/02/03

APPROVED BN DATE 01/02/03

TITLE
DYNAMITE, JACK
2 HOLE FLANGE
FIELD REPLACEABLE

CODE IDENT. 2J899

SHEET 1 OF 3

DWG. NO. 2752-0781-6213

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT

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

DYNAMITE ENGAGEMENT FORCES

- INSERTION (MAX. OUNCES) ——— INTERFACE 32.0, REAR 24.0
- WITHDRAWAL (MIN. OUNCES) ——— INTERFACE 1.5, REAR 1.0

DYNAMITE 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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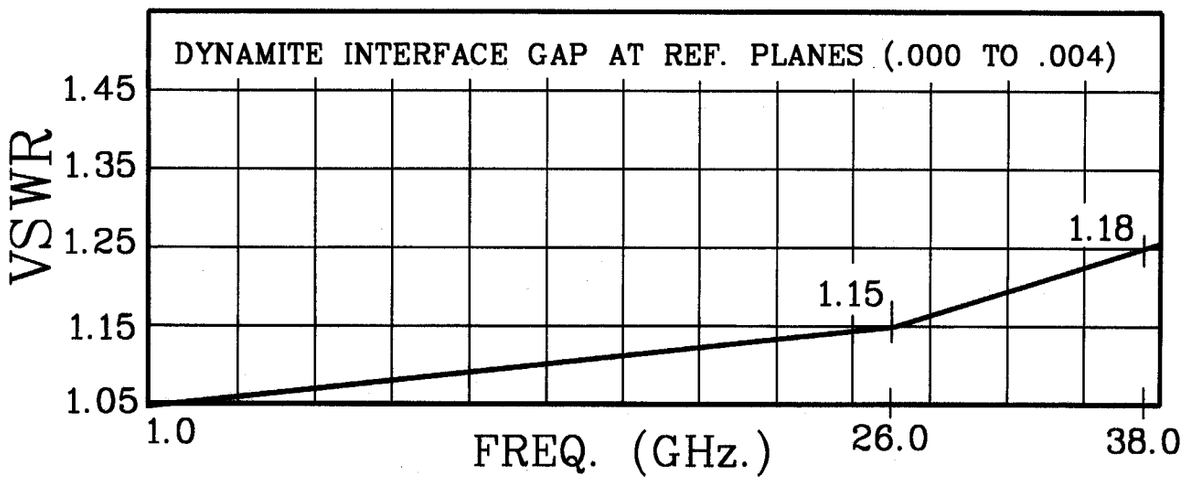
5. MATERIAL

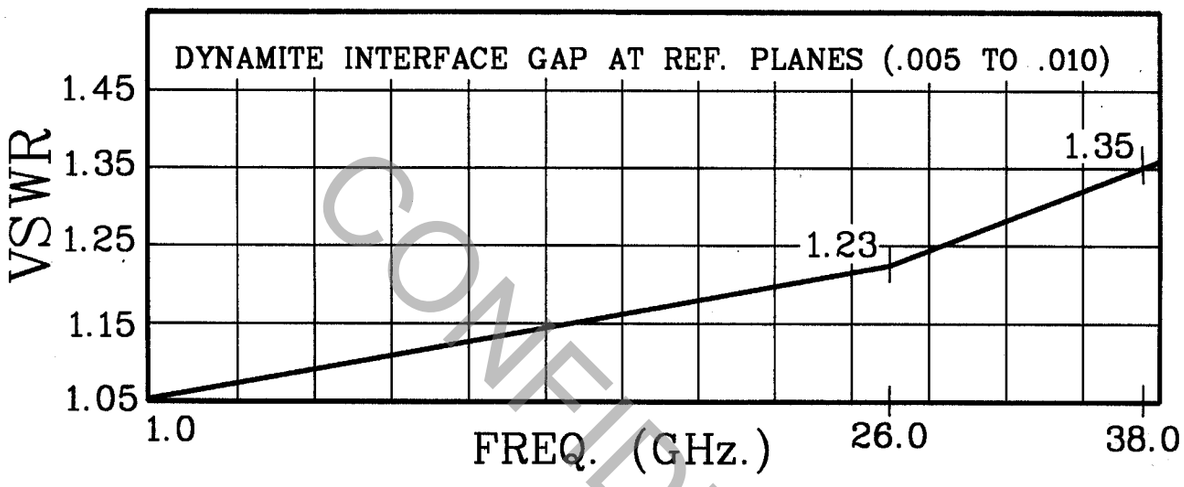
CONNECTOR BODY AND COIL SPRING	STAINLESS STEEL PER AMS-5640, TYPE 303, COND. A
CENTER CONTACT	BERYLLIUM COPPER PER QQ-C-530, ALLOY 173 COND. HT
INSULATOR	TEFLON PER D-1457
CENTER CONTACT HOOD	BRASS PER QQ-B-626, 1/2 HARD, ALLOY 360

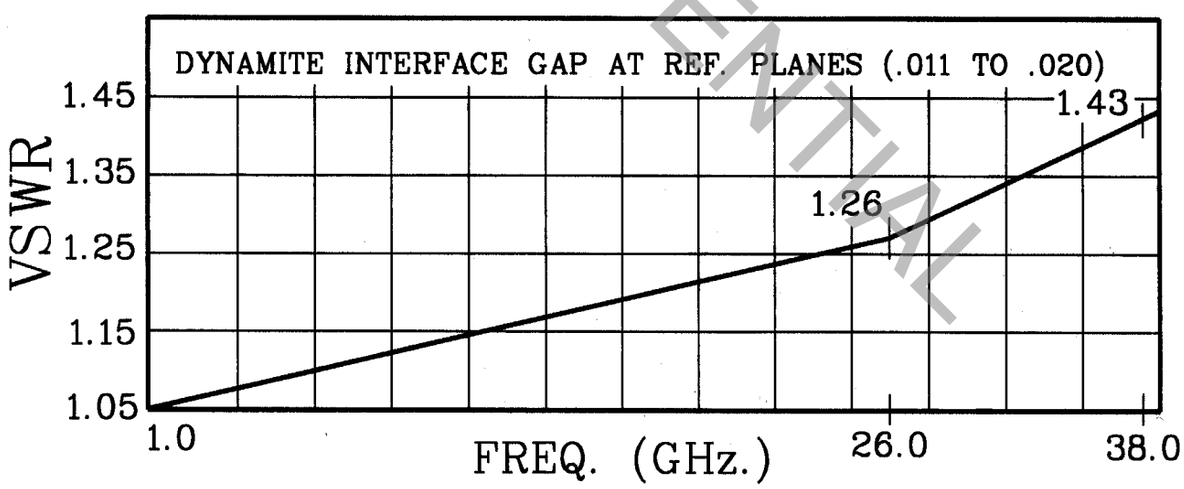
6. FINISH

CONNECTOR BODY ~~AND COIL SPRING~~	PASSIVATE PER QQ-P-35A, TYPE I.
CENTER CONTACT ASSEMBLY	GOLD per ATSM B 488, TYPE I, CLASS C, CLASS 2.5 (.000100 Minimum Thickness) OVER NICKEL per QQ-N-290 (.000050 Minimum Thickness) OVER COPPER per MIL-C-14550 (.000010 Minimum Thickess).
INSULATOR	N/A

SPECIFICATION CONTROL DRAWING







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dynawave INCORPORATED	SHEET 3 OF 3	DWG. NO. 2752-0781-6213	REV. AA