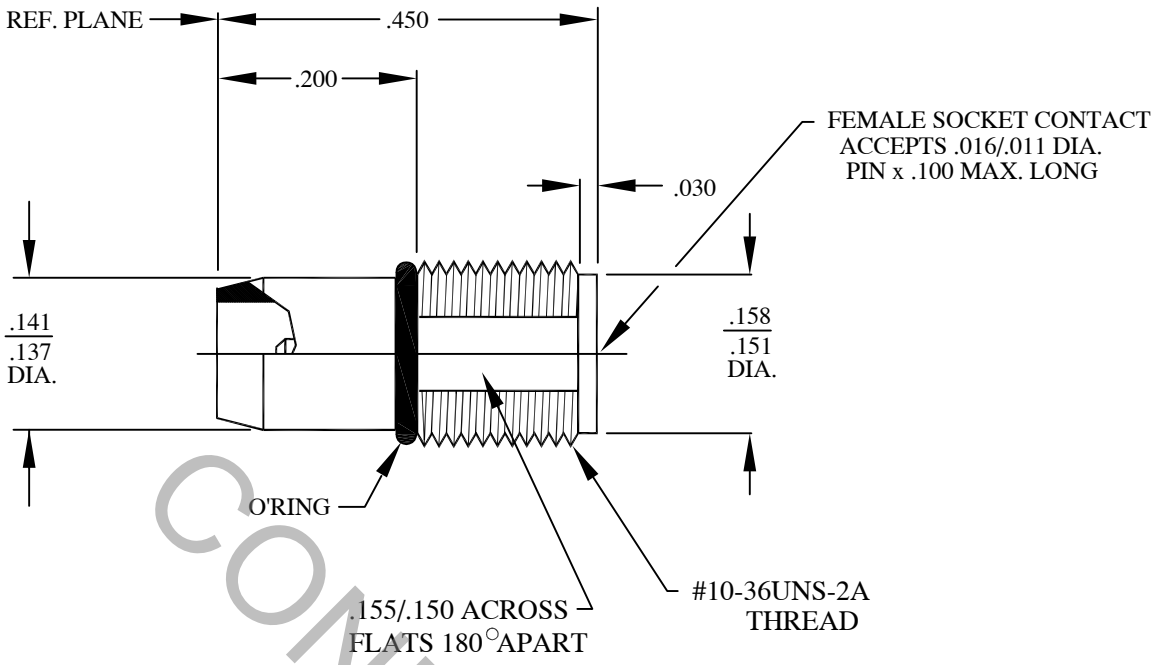
SPECIFICATION CONTROL DRAWING



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1. MATING

INTERFACE DIMENSIONS PER DYNAWAVE SPECIFICATION MD-26 (DYNAMITE, PLUG)

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

REV.	DCN NO.	DATE	APP.
AA	03-1256	2/25/03	DGG
BA	03-2118	9/3/03	DC

DIMENSIONS ARE IN INCHES
TOLERANCES

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

dynawave® INCORPORATED
HAVERHILL, MA 01835

DRAWN BN DATE 2/25/03

APPROVED DGG DATE 2/25/03

TITLE
DYNAMITE, PLUG
THREADED BARREL
FIELD REPLACEABLE

CODE IDENT. 2J899

SHEET 1 OF 3

DWG. NO. 2630-0081-6218

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT

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

DYNAMITE ENGAGEMENT FORCES

- INSERTION (MAX. OUNCES) — REAR 24.0
- WITHDRAWAL (MIN. OUNCES) — REAR 1.0

DYNAMITE DURABILITY (MIN. MATING) — 1,000

RECOMMENDED PACKAGE MATING TORQUE — 7 TO 10 IN./LBS.

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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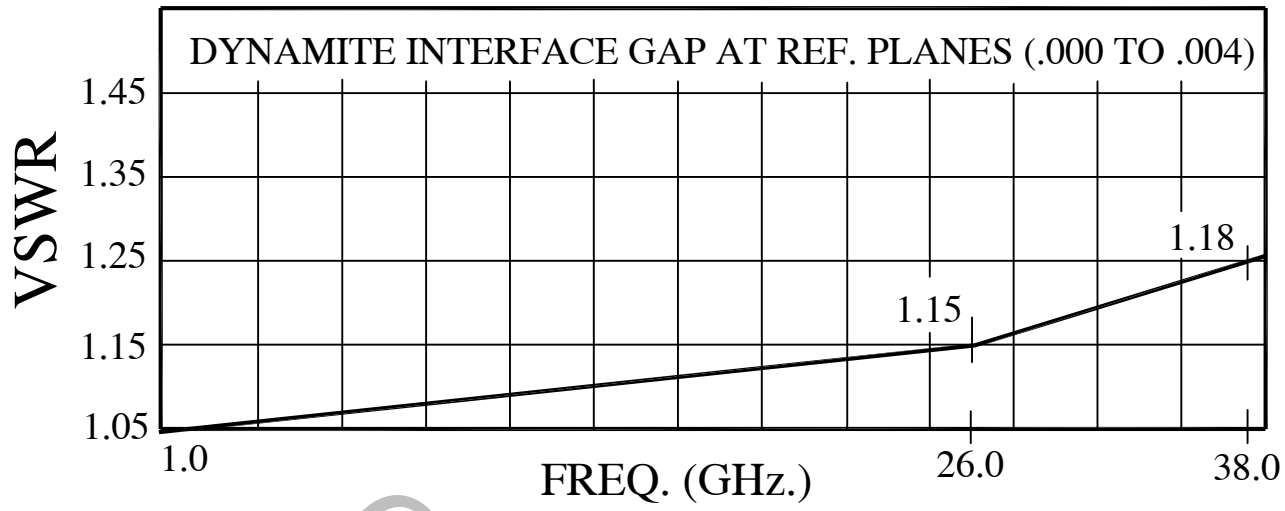
5. MATERIAL

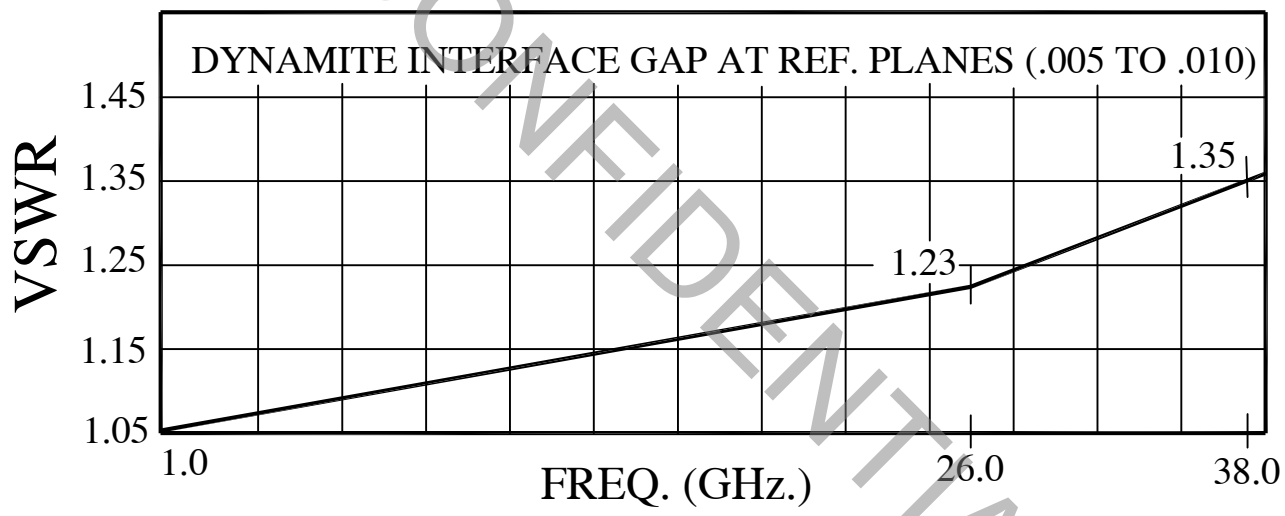
CONNECTOR BODY	STAINLESS STEEL PER ASTM A 581, TYPE 303, COND. A.
CENTER CONTACT AND PIN	BERYLLIUM COPPER PER ASTM B196-90, COPPER ALLOY No. UNS C17300, TEMPER TD04.
INSULATOR	TEFLON PER ASTM D 4894-91.
O'RING	FLOUROSICONE PER MIL-R-25988, TYPE 1, CLASS 1 GRADE 60/3

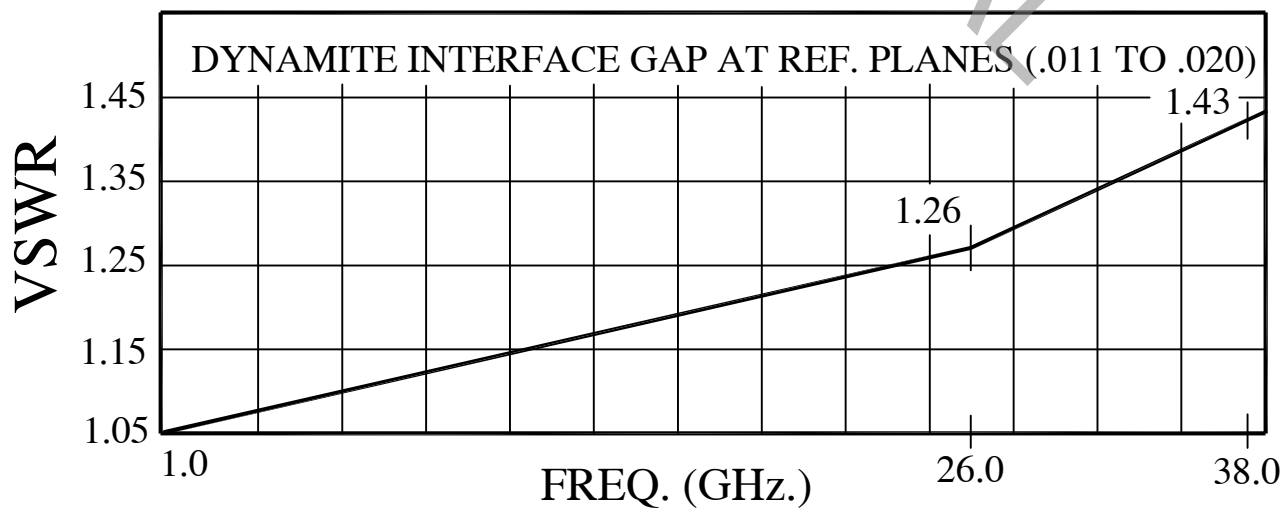
6. FINISH

CONNECTOR BODY	PASSIVATE PER QQ-P-35A, TYPE I.
CENTER CONTACT AND PIN	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 Thickness).
INSULATOR	N/A
O'RING	N/A

SPECIFICATION CONTROL DRAWING







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dynawave INCORPORATED	SHEET 3 OF 3	DWG. NO. 2630-0081-6218	REV. BA