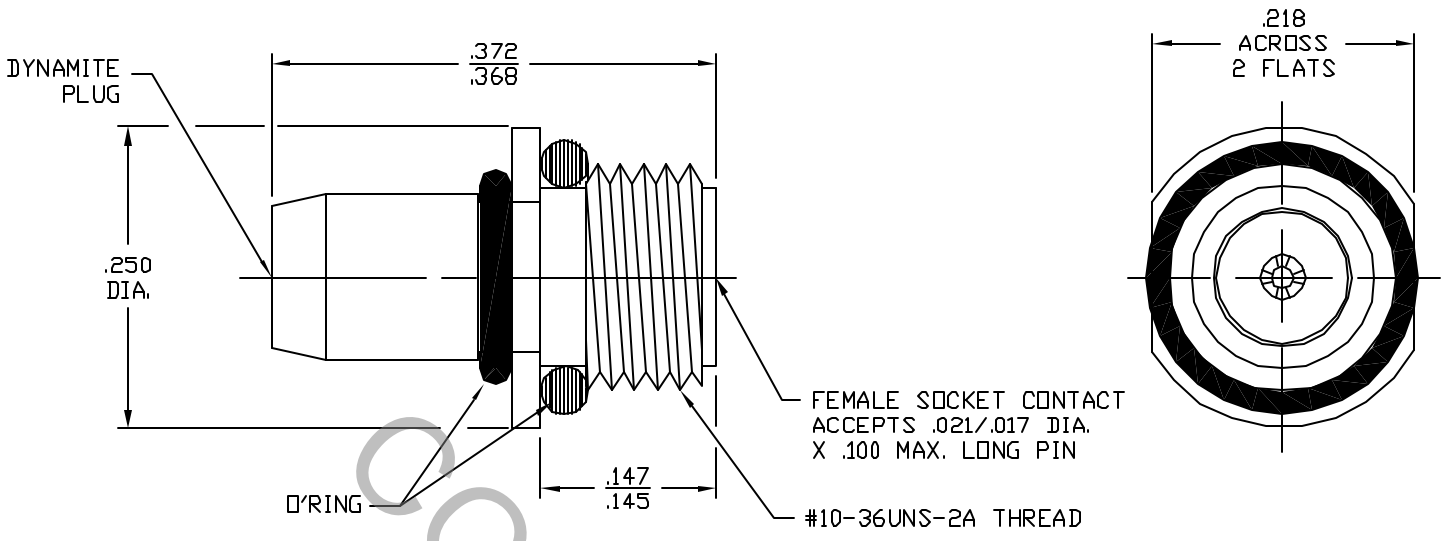
SPECIFICATION CONTROL DRAWING



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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	02-0584	6/26/02	DGG
BA	03-1102	1/24/03	BN

DIMENSIONS ARE IN INCHES
TOLERANCES

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

dynawave INCORPORATED
HAVERHILL, MA. 01835

DRAWN G.E. DATE 6/26/02

APPROVED DGG DATE 6/26/02

TITLE
DYNAMITE, PLUG
THREADED BARREL
FIELD REPLACEABLE

CODE IDENT. 2J899

SHEET 1 OF 3

DWG. NO. 2630-0081-6222

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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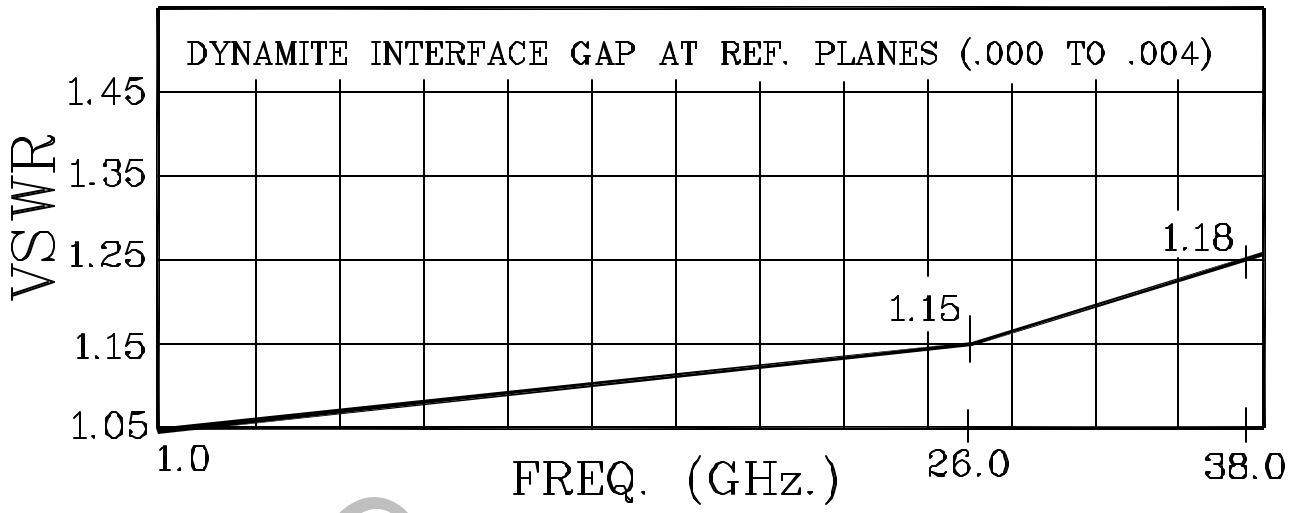
5. MATERIAL

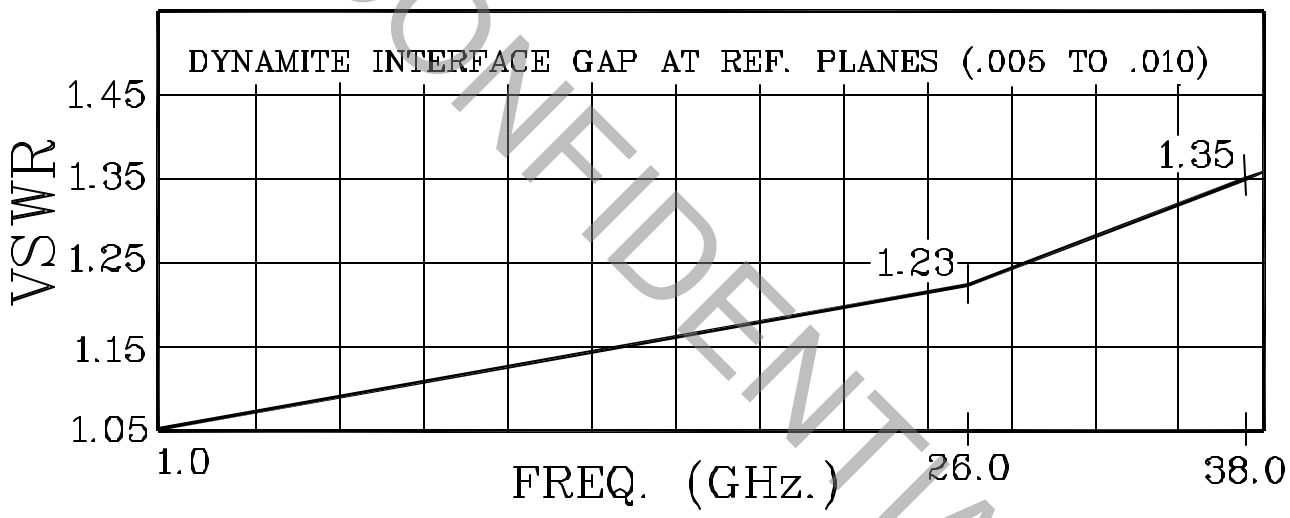
CONNECTOR BODY	STAINLESS STEEL PER ASTM–A–581, TYPE 304L
CENTER CONTACT AND PIN	BERYLLIUM COPPER PER ASTM B196–90, COPPER ALLOY No. UNS C17300, TEMPER TD04.
INSULATOR	TEFLON PER ASTM D 4894–91.
O–RING	FLUORSILICONE PER MIL–R–25988, TYPE I, CLASS 1, GRADE 60/3.
EMI O–RING	PURE SILVER FILLED FLUORSILICONE

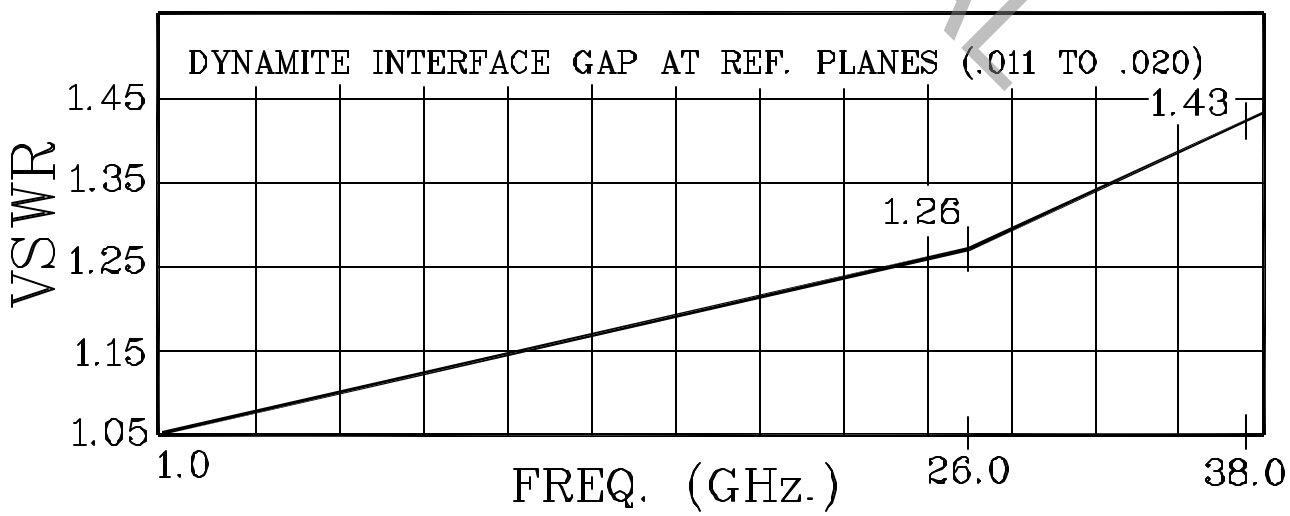
6. FINISH

CONNECTOR BODY	PASSIVATE PER QQ–P–35A, TYPE I.
CENTER CONTACT AND PIN	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
O–RINGS	N/A

SPECIFICATION CONTROL DRAWING







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dynawave INCORPORATED	SHEET 3 OF 3	DWG. NO. 2630-0081-6222	REV. BA