SPECIFICATION CONTROL DRAWING

FOR MECHANICAL DETAILS SEE SHEET (2)

1. MATING — INTERFACE DIMENSIONS PER DYNAWAVE SPEC. MD-29 (DYNAMATE JACK)

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 18.0 GHz
VSWR (MAX.) ✸	SEE SHEET 3
INSERTION LOSS (dB MAX.)	
• DYNAMATE INTERFACE GAP (.000 TO .010)	.035 dB x $\sqrt{FGHz}$
• DYNAMATE INTERFACE GAP (.011 TO .030)	.050 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 (.000 TO .010)	80 dB - FGHz.
• DYNAMATE INTERFACE GAP (.011 TO .030)	60 dB - FGHz.
TEMPERATURE RATING (DEGREES CENTIGRADE)	-65°c TO + 150°c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	750
INSULATION RESISTANCE (MIN. MEGOHMS)	10,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	4.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

✸ TERMINATED IN A 50 OHM LOAD

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REV.	DCN NO.	DATE	APP.
–	826	11/91	CT
A	828	11/91	CT
B	830	12/91	CT
C	832	12/91	T.S.

DIMENSIONS ARE IN INCHES
TOLERANCES

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

DRAWN CT DATE 11/91

APPROVED DATE 11/91

CODE IDENT. 2J899

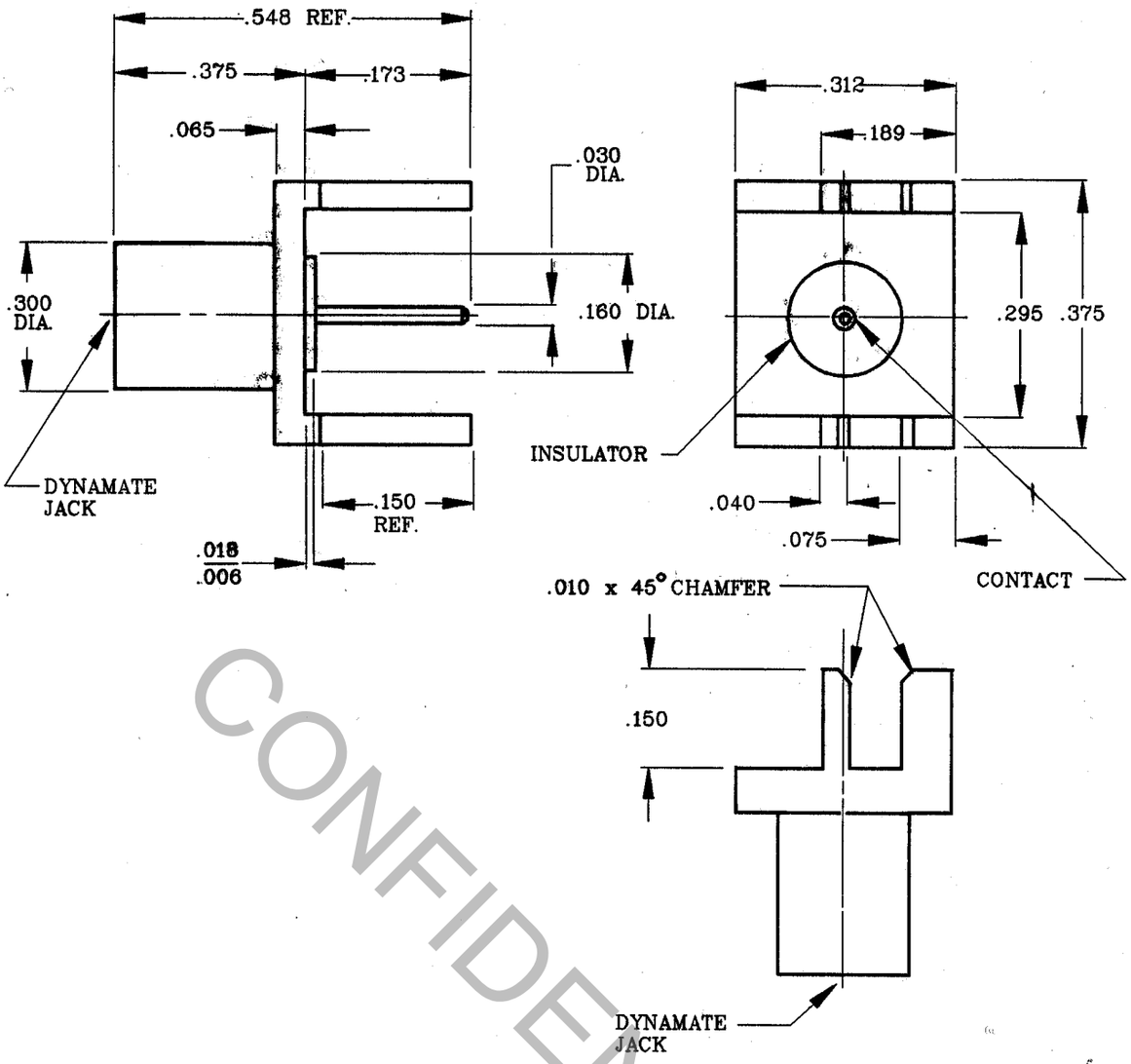
SHEET 1 OF 4

dynawave INCORPORATED
GEORGETOWN MA. 01833

TITLE
DYNAMATE JACK
PRINTED CIRCUIT
BOARD MOUNT

DWG. NO. 2920-0031-2724

SPECIFICATION CONTROL DRAWING



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REV.	DCN NO.	DATE	APP.
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DIMENSIONS ARE IN INCHES
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DECIMALS	FRACTIONAL	ANGULAR
.X ± .030 .XX ± .010 .XXX ± .005	± 1/64	X° ± 1 0' X° X ± 15'

dynawave INCORPORATED
GEORGETOWN MA. 01833

DRAWN CT DATE 11/91

APPROVED DATE 11/91

TITLE
DYNAMATE JACK
PRINTED CIRCUIT
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SHEET 2 OF 4

DWG. NO. 2920-0031-2724

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT	
● MIN. AXIAL FORCE	4.0 LBS.
● MIN. RADIAL TORQUE	N/A
DYNAMATE ENGAGEMENT FORCES	
● INSERTION (MAX. OUNCES)	48.0
● WITHDRAWAL (MIN. OUNCES)	1.5
DYNAMATE DURABILITY (MIN. MATING)	500
RECOMMENDED MATING TORQUE	N/A
DYNAMATE RADIAL MIS–ALIGNMENT	+/– .005

4. ENVIRONMENTAL

TEMPERATURE CYCLING	MIL–STD–202, METHOD 102, COND. C (–65 ° c TO + 165 °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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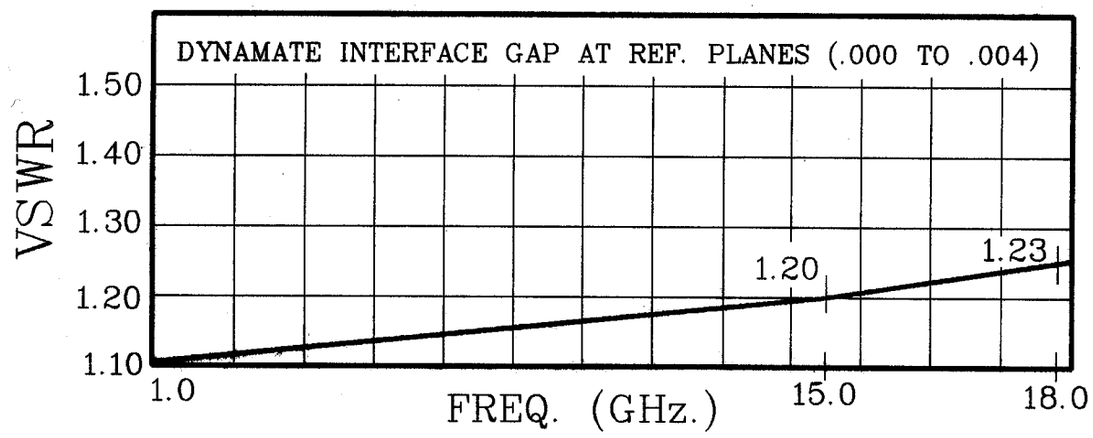
5. MATERIAL

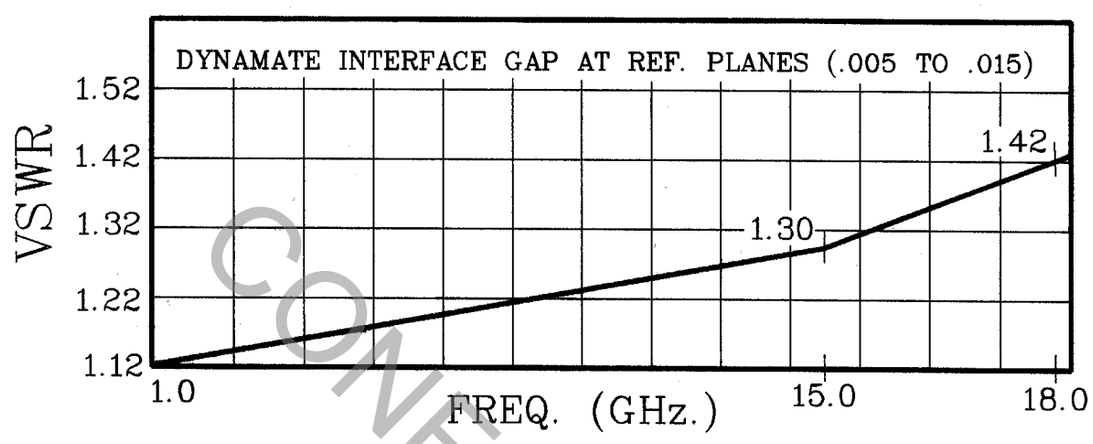
COIL SPRINGS	STAINLESS STEEL PER AMS–5640, TYPE 303, COND. A
CENTER CONTACT	BERYLLIUM COPPER PER QQ–C–530, ALLOY 173 COND. HT
INSULATOR	TEFLON PER D–1457
CONNECTOR BODY AND CENTER CONTACT HOOD	BRASS PER QQ–B–626, 1/2 HARD, ALLOY 360

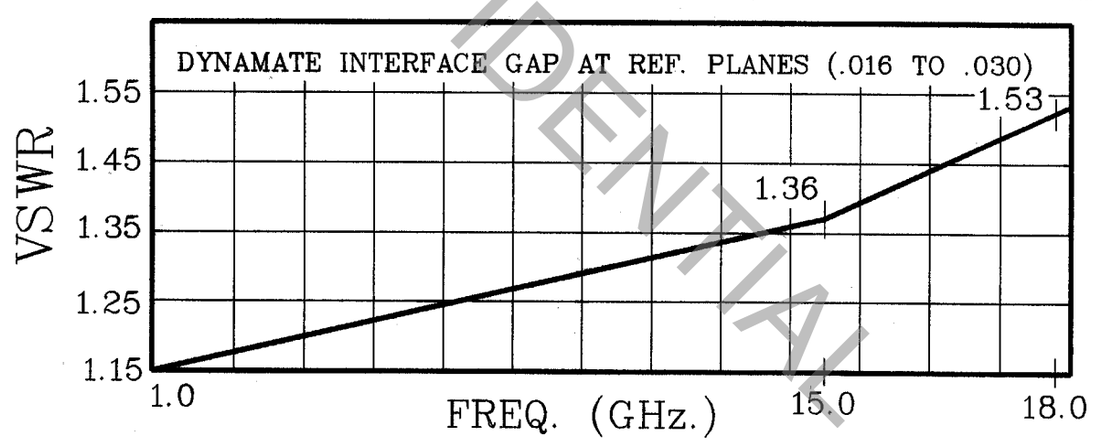
6. FINISH

CONNECTOR BODY	NICKEL PER QQ–N–290, CLASS 1, (.00002 MIN. THK.) OVER WOODS OR WATTS NICKEL (.00001 MIN. THK.) OVER COPPER PER MIL–C–14550 (.00001 MIN. THK.).
COIL SPRINGS	GOLD PER MIL–G–45204,TYPE II,GRADE C (.000003 MIN.) OVER NICKEL PER QQ–N–290,CLASS 1,(.0001/.00015).
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 THICKNESS).
INSULATOR	N/A

SPECIFICATION CONTROL DRAWING







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