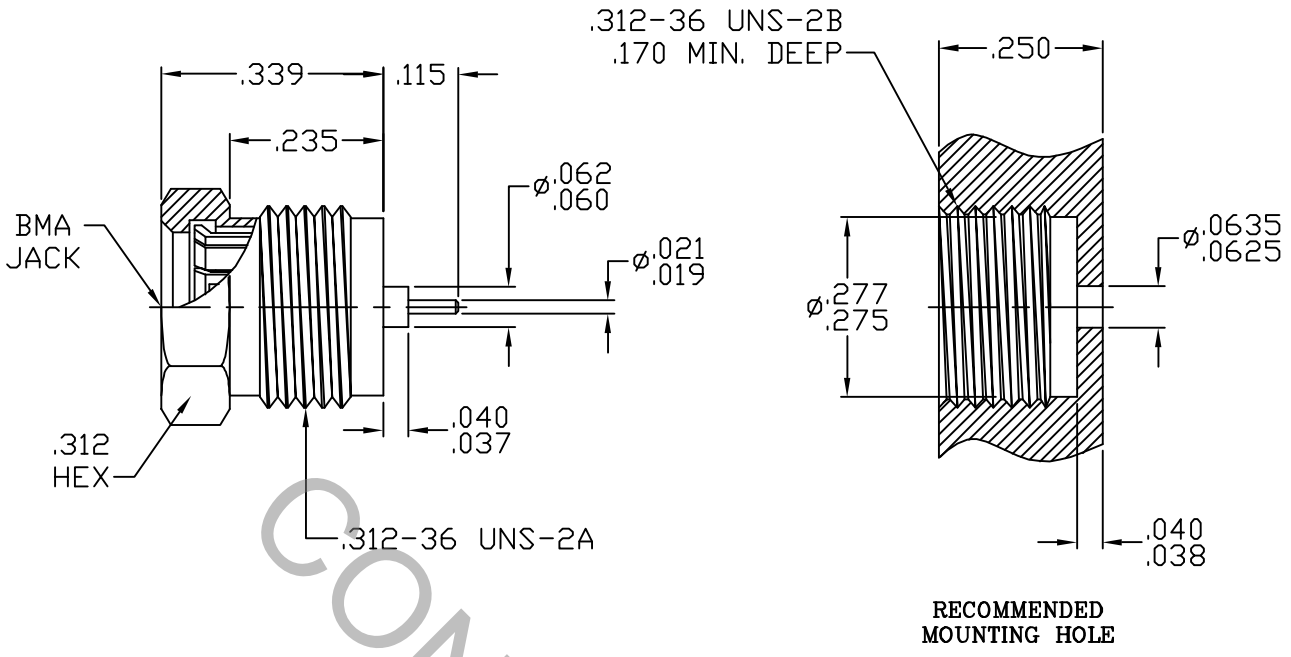
SPECIFICATION CONTROL DRAWING



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1. MATING — INTERFACE DIMENSIONS PER MIL-STD-348A, Fig. 321.2 AND DYNAWAVE SPECIFICATION MD-67 (BMA, JACK)

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 20.0 GHz.
VSWR (MAX.) ❋	1.06 + .010 x FGHz.
INSERTION LOSS (dB MAX.)	
• DYNAMATE INTERFACE GAP (.000 to .015)	.035 dB x $\sqrt{FGHz}$
• DYNAMATE INTERFACE GAP (.016 to .030)	.050 dB x $\sqrt{FGHz}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	335
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)	1000
INSULATION RESISTANCE (MIN. MEGOHMS)	5,000
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	06-1044	1/11/06	DC

DIMENSIONS ARE IN INCHES
TOLERANCES

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

dynawave INCORPORATED
HAVERHILL, MA 01835

DRAWN DC DATE 1/11/06

APPROVED DC DATE 1/11/06

TITLE: BMA FEMALE, THREAD IN STRAIGHT TERMINAL

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 6730-0031-6201

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT
- MIN. AXIAL FORCE — 6.0 LBS.
- MIN. RADIAL TORQUE — N/A

DYNAMATE ENGAGEMENT FORCES
- INSERTION (MAX. OUNCES) — 48.0
- WITHDRAWAL (MIN. OUNCES) — 2.0

DYNAMATE DURABILITY (MIN. MATING) — 1000

RECOMMENDED MATING FORCES
- MIC PACKAGE (TORQUE) — 20–24 IN. LBS.
- PLUG CONNECTOR – INSERTION FORCE — 3.0 LBS. MAXIMUM

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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)

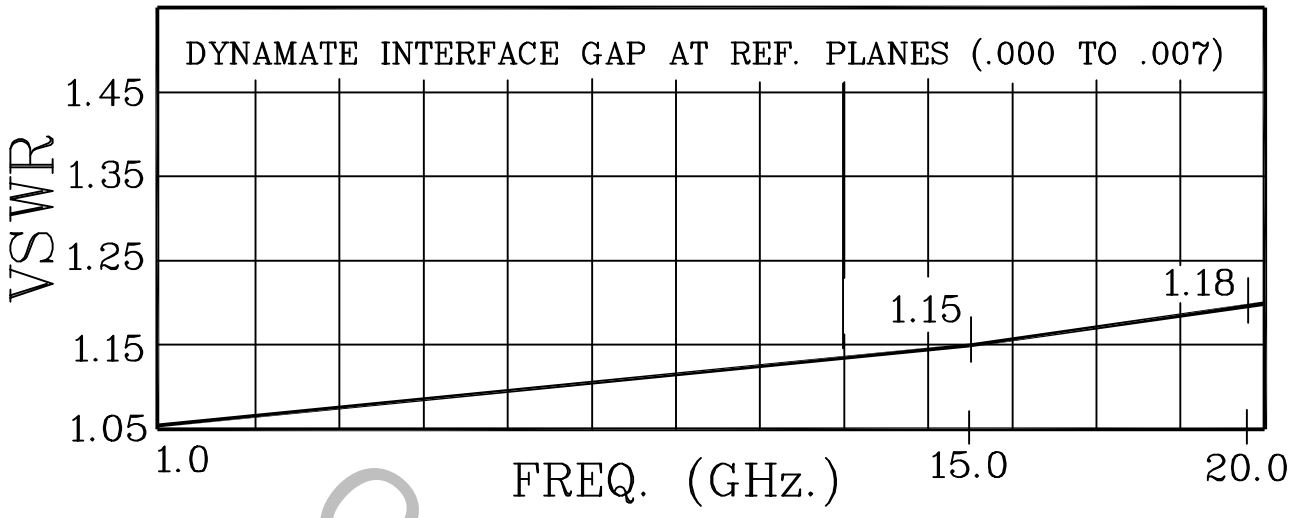
5. MATERIAL

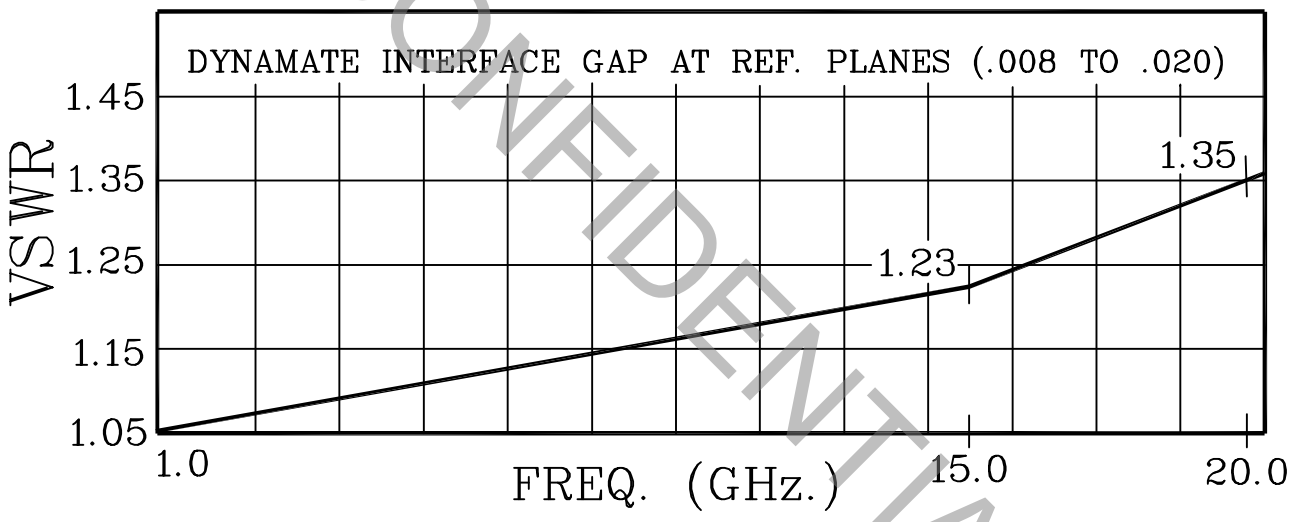
CONNECTOR BODY	STAINLESS STEEL PER AMS–5640, TYPE 303, COND. A.
CENTER CONTACT AND SPRING FINGERS	BERYLLIUM COPPER PER QQ–C–530, ALLOY 173 COND. HT
INSULATOR	TEFLON PER MIL–P–19468 AND L–P–403, TYPE I.

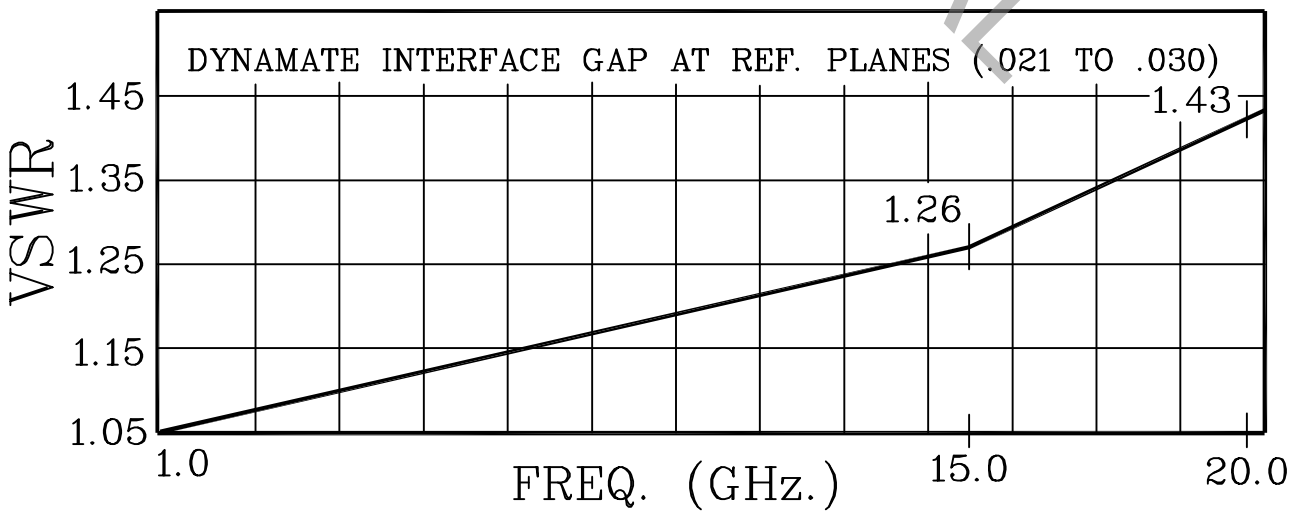
6. FINISH

CONNECTOR BODY	PASSIVATE PER QQ–P–35A, TYPE I.
CENTER CONTACT AND SPRING FINGERS	GOLD PER ASTM–B–488, TYPE I, CODE C, CLASS 2.5 (.000100 MIN. THICKNESS) OVER NICKEL PER QQ–N–290 (.000050 MIN. THICKNESS) OVER COPPER PER MIL–C–14550 (.000010 MIN. THICKNESS).
INSULATOR	N/A

SPECIFICATION CONTROL DRAWING







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dynawave INCORPORATED	SHEET 3 OF 3	DWG. NO. 6730-0031-6201	REV. AA