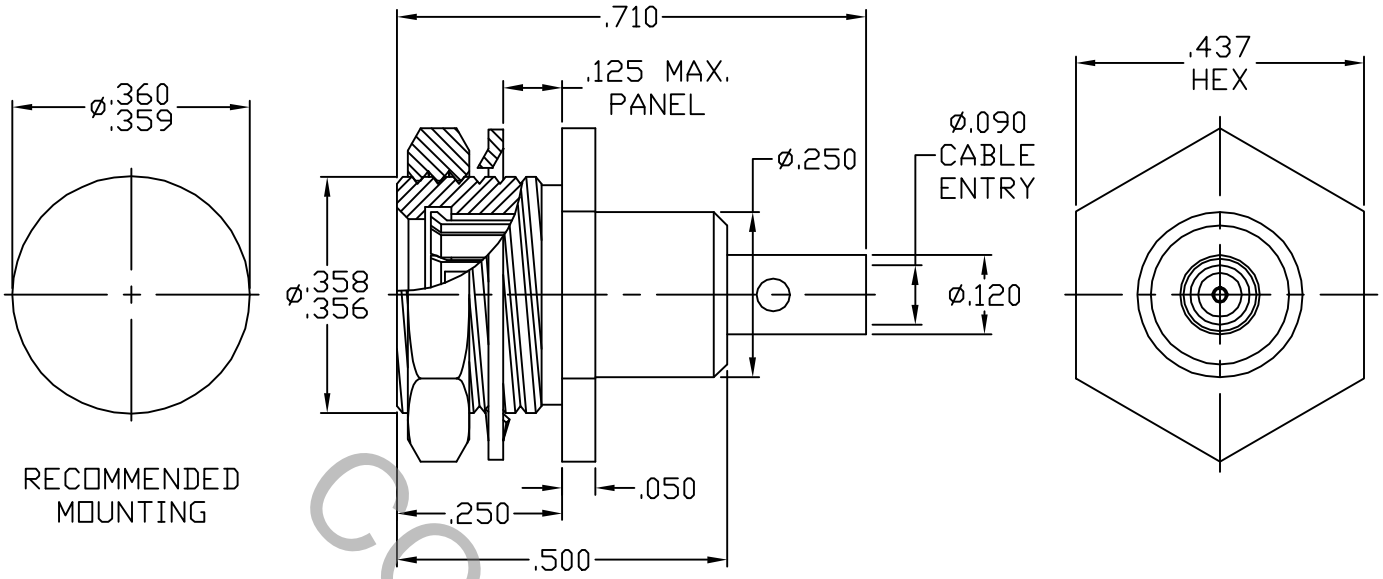
SPECIFICATION CONTROL DRAWING



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1. MATING — INTERFACE DIMENSIONS PER DYNAWAVE MD-67 (BMA, JACK)

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 26.5 GHz.
VSWR (MAX.) ❋	SEE SHEET 3
INSERTION LOSS (dB MAX.)	
• BMA INTERFACE GAP (.000 to .015)	.040 dB x $\sqrt{FGHz}$
• BMA INTERFACE GAP (.016 to .030)	.060 dB x $\sqrt{FGHz}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	250
RF LEAKAGE (MIN. dB DOWN)	
• BMA INTERFACE BOTTOMED (.000 GAP)	−100 dB − FGHz
• BMA INTERFACE GAP (.001 to .015)	−90 dB − FGHz
• BMA INTERFACE GAP (.016 to .030)	−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	05-2139	11/2/05	TS
AB	05-2174	11/9/05	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 TS DATE 11/2/05

APPROVED DC DATE 11/2/05

TITLE: BMA JACK, BULKHEAD, DIRECT SOLDER, ø.085 SEMI-RIGID

CODE IDENT. 2J899

SHEET 1 OF 3

DWG. NO. 6710-8521-6750

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT
- MIN. AXIAL FORCE — 4.5 LBS.
- MIN. RADIAL TORQUE — N/A

DYNAMATE ENGAGEMENT FORCES
- INSERTION (MAX. OUNCES) — 32.0
- WITHDRAWAL (MIN. OUNCES) — 1.0

DYNAMATE DURABILITY (MIN. MATING) — 1000

RECOMMENDED MATING FORCES
- MOUNTING TORQUE — 20–24 IN. LBS.
- PLUG CONNECTOR – INSERTION FORCE — 3.0 LBS. MAXIMUM

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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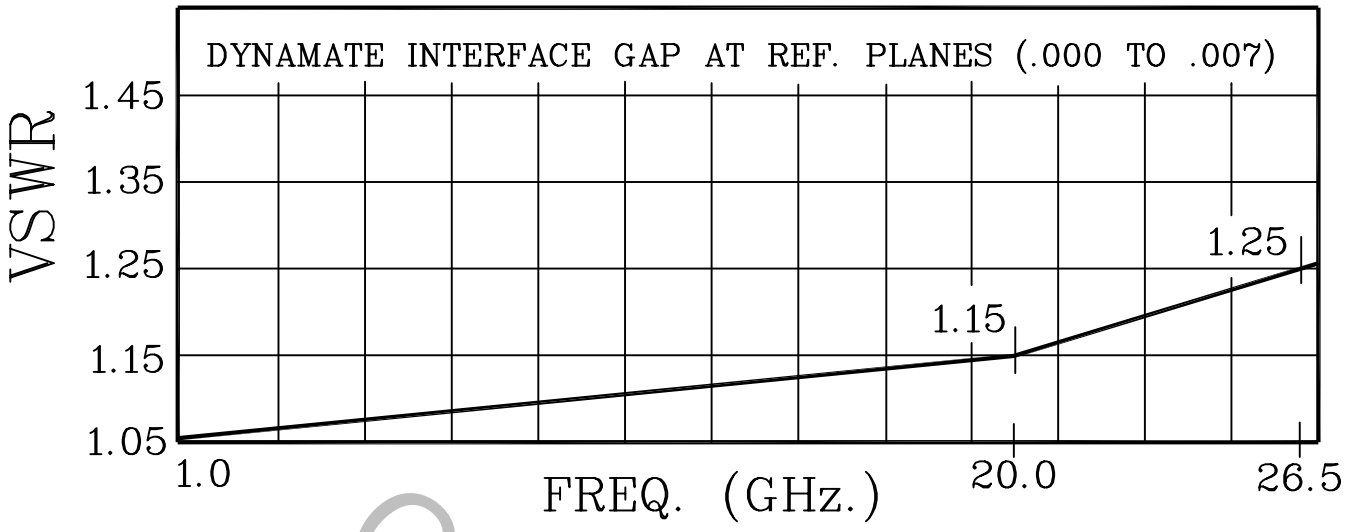
5. MATERIAL

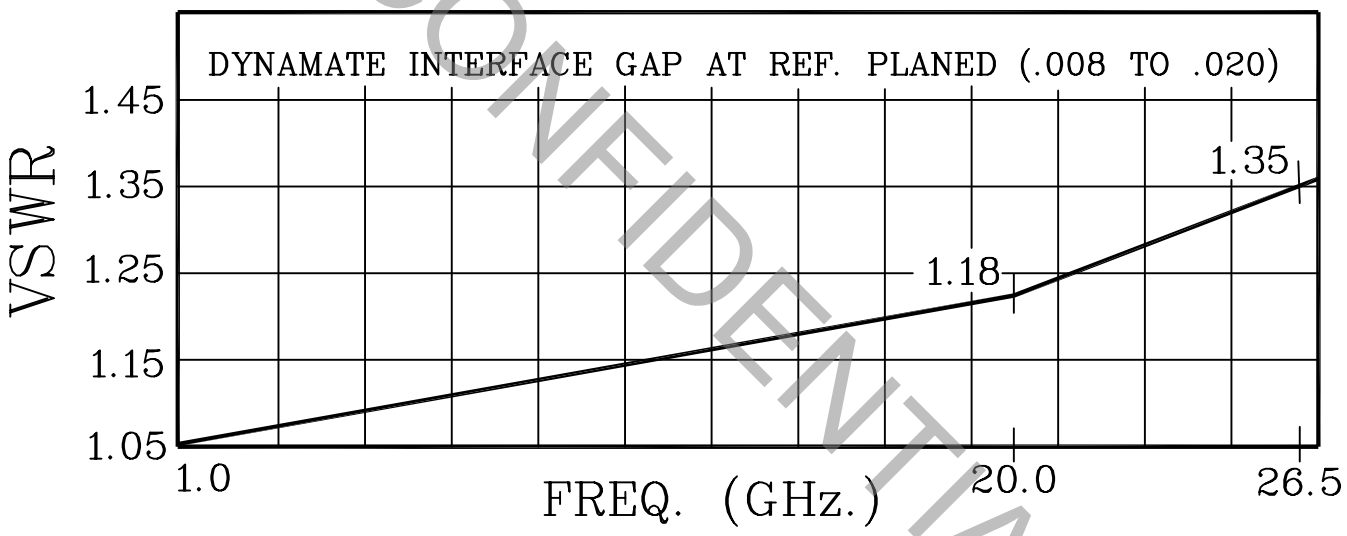
CONNECTOR BODY, HEX NUT AND LOCKWASHER	STAINLESS STEEL PER AMS–5640, TYPE 303, COND. A.
CENTER CONTACT AND SPRING FINGERS	BERYLLIUM COPPER PER QQ–C–530, ALLOY 173 COND. HT
INSULATOR	TEFLON PER MIL–P–19468 AND L–P–403, TYPE I.

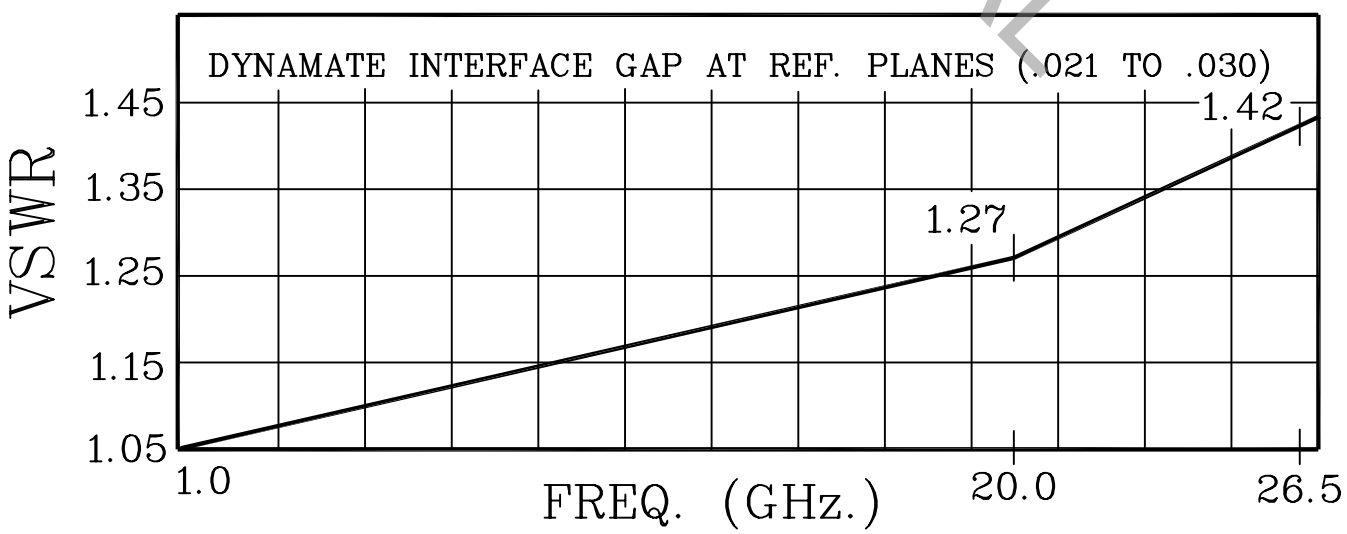
6. FINISH

CONNECTOR BODY	NICKEL PER QQ–N–290, CLASS 1 (.00050 MIN. THK) OVER WOOD OR WATTS NICKEL (.000010 MIN. THK.) COPPER PER MIL–C–14550 (.000010 MIN. THK.).
HEX NUT AND LOCKWASHER	PASSIVATE PER AMS QQ–P–35, TYPE 11
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. 6710-8521-6750	REV. AB