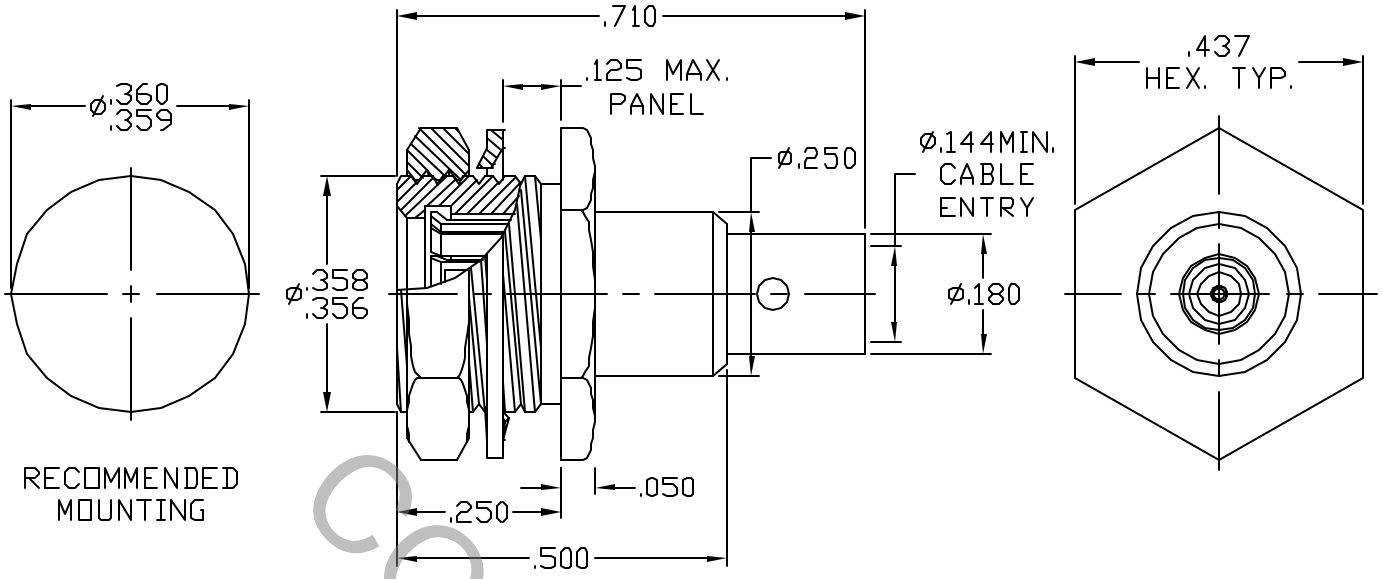
SPECIFICATION CONTROL DRAWING



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1. MATING — INTERFACE DIMENSIONS PER MIL-STD-348A, Fig. 321.2 (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	06-2512		

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	12/8/06
APPROVED	DC	DATE	12/8/06

TITLE: BMA JACK, BULKHEAD, DIRECT SOLDER, ø.141 SEMI-RIGID

CODE IDENT.	SHEET 1 OF 3	DWG. NO.
2J899		6710-4121-6450

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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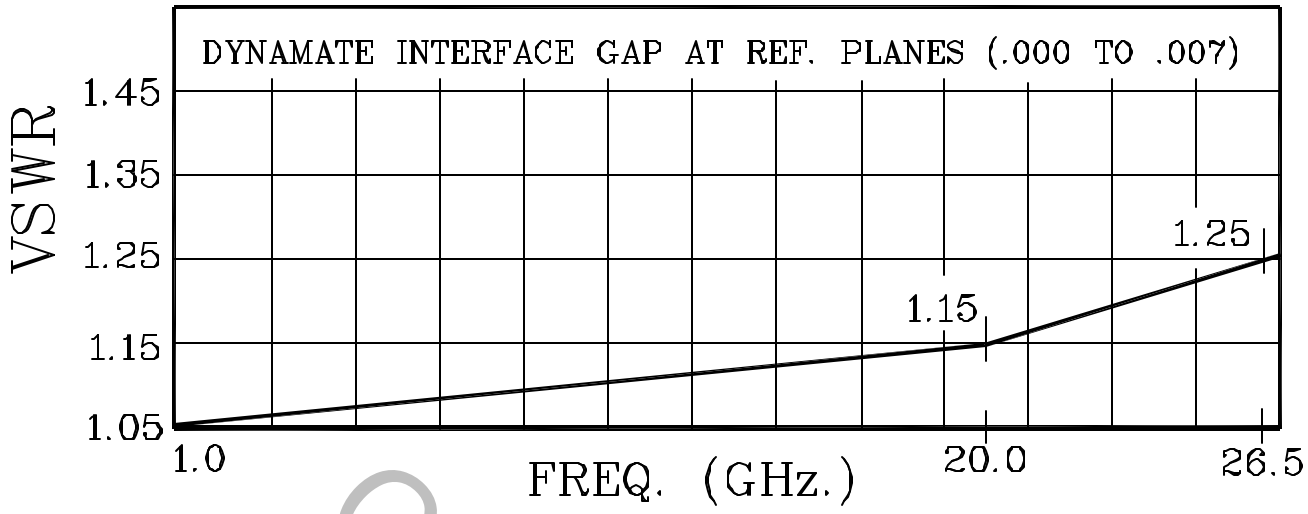
5. MATERIAL

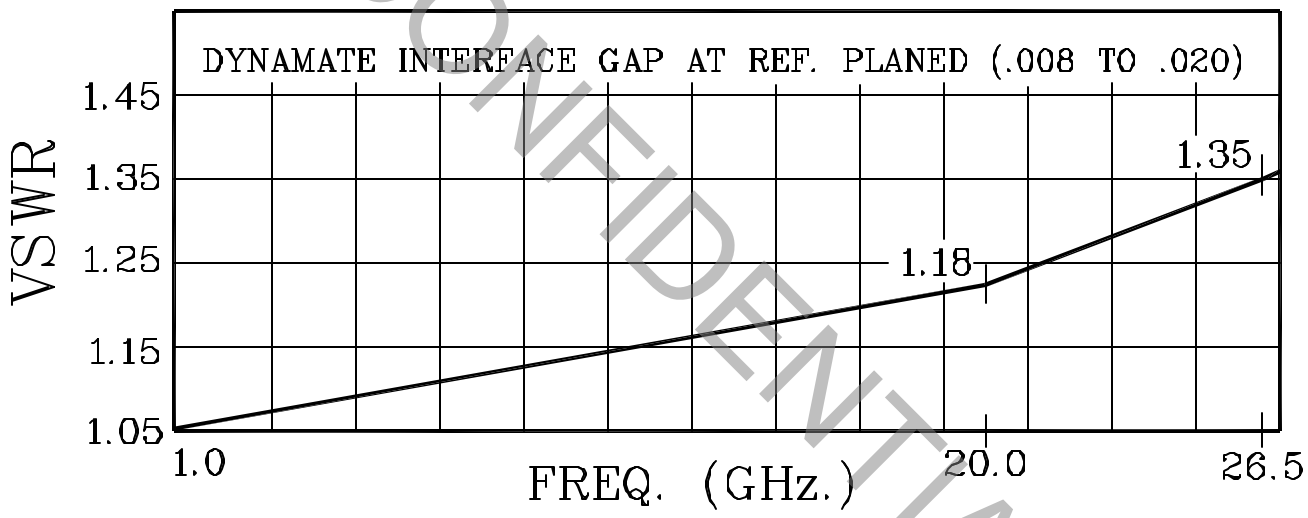
CONNECTOR BODY AND HEX NUT	STAINLESS STEEL PER ASTM A 581, TYPE 303, COND. A.
CENTER CONTACT AND SPRING FINGERS	BERYLLIUM COPPER PER ASTM B196/B 196M–03, COPPER ALLOY No. UNS C 17300, TEMPER TD04.
INSULATOR	TEFLON PER ASTM D 1710–02, TYPE 1, GRADE 1, CLASS B
LOCKWASHER	CARBON STEEL, TYPE 1050

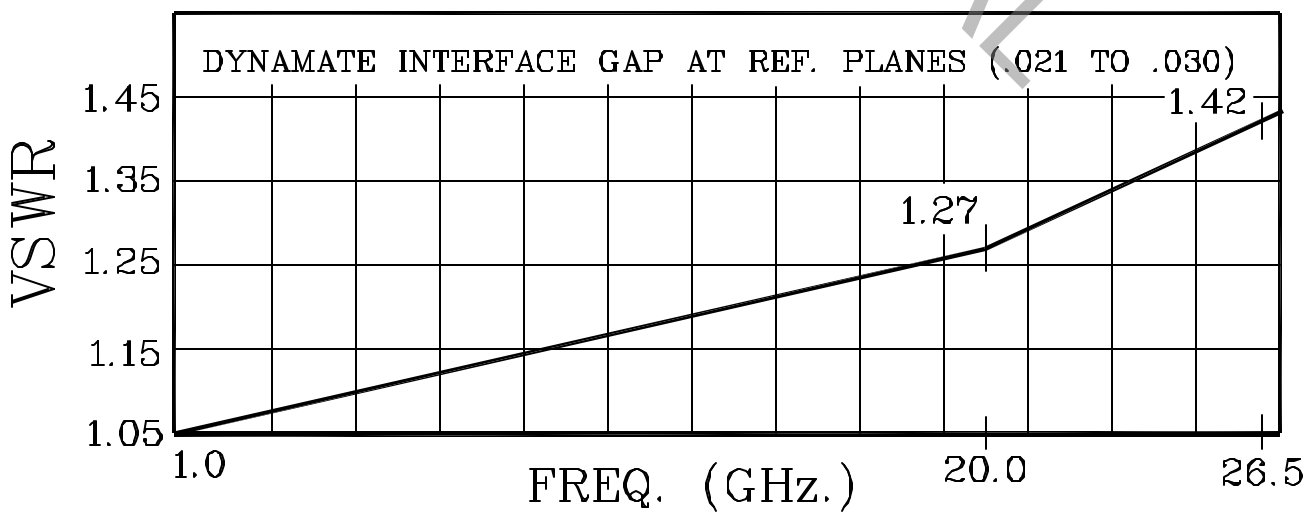
6. FINISH

CONNECTOR BODY	GOLD PER ASTM–B–488, TYPE I, CODE C, CLASS 1.25 (.000050 MIN. THICKNESS) OVER NICKEL PER QQ–N–290 (.000150 MIN. THICKNESS) OVER NICKEL (WOODS OR WATTS) (.000010 MIN. THICKNESS).
HEX NUT AND LOCKWASHER	PASSIVATE PER AMS QQ–P–35, TYPE 2.
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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