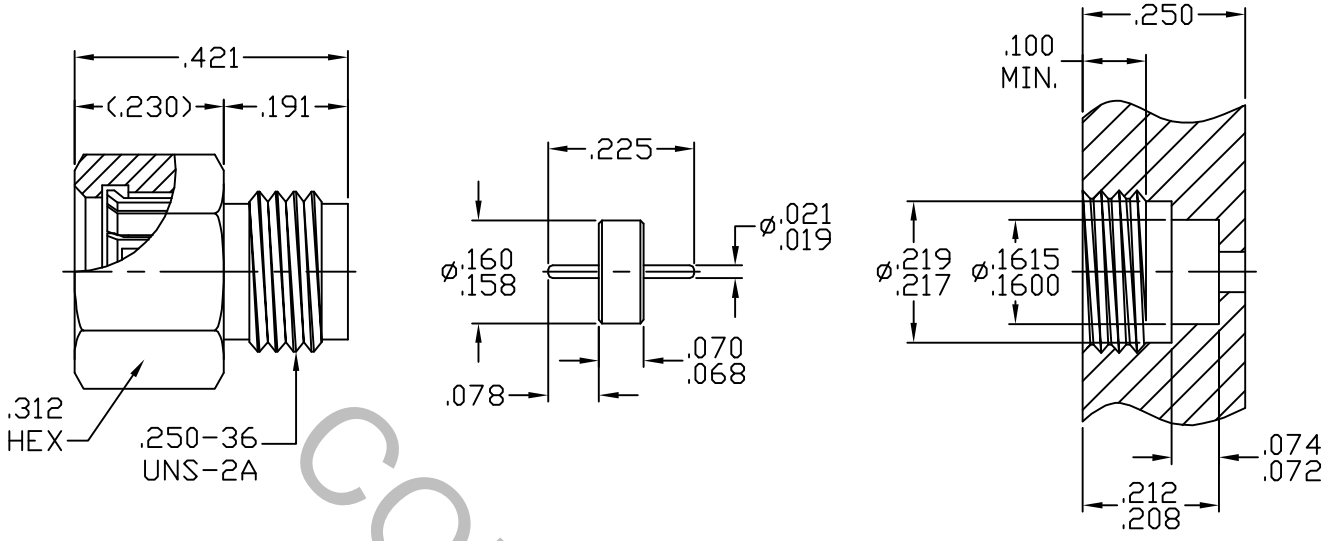
SPECIFICATION CONTROL DRAWING



CONFIDENTIAL

1. MATING — INTERFACE DIMENSIONS PER DYNAWAVE 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	05-1464	4/12/05	TS

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 SS DATE 4/12/05

APPROVED TS DATE 4/12/05

TITLE: BMA FEMALE, THREAD IN FIELD REPLACEABLE WITH SEPARATE GLASS SEAL

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 6730-0026-6220

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT

- MIN. AXIAL FORCE (BOTH) — 6.0 LBS.
- MIN. RADIAL TORQUE — N/A

BMA ENGAGEMENT FORCES

- INSERTION (MAX. OUNCES) — INTERFACE 48.0, REAR CONTACT 32.0
- WITHDRAWAL (MIN. OUNCES) — INTERFACE 2.0, REAR CONTACT 1.0

BMA DURABILITY (MIN. MATING) — 1,000

RECOMMENDED MATING TORQUE — N/A

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.) (250 VRMS)
HERMETICITY	1×10^{-8} cc/SEC.

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5. MATERIAL

CONNECTOR BODY	STAINLESS STEEL PER ASTM A 581, TYPE 303, COND. A.
CENTER CONTACT & SPRING FINGERS	BERYLLIUM COPPER PER ASTM B196–90, COPPER ALLOY No. UNS C17300, TEMPER TD04.
INSULATOR	TEFLON PER ASTM D 1710
OUTER RING & PIN	KOVAR PER MIL–I–23011
GLASS	CORNING 7070

6. FINISH

CONNECTOR BODY	PASSIVATE PER QQ–P–35C, TYPE VI
CENTER CONTACT & SPRING FINGERS	GOLD PER ASTM B 488, TYPE 1, CODE 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).
KOVAR PIN	GOLD PER ATSM B 488, TYPE I, CODE C, CLASS 1.25 (.000050 MIN. THK.) OVER NICKEL PER MIL–P–27418 (.000100 – .000150 THK.) OVER NICKEL (WOODS OR WATTS), (.000010 MIN. THK.)
INSULATOR	N/A