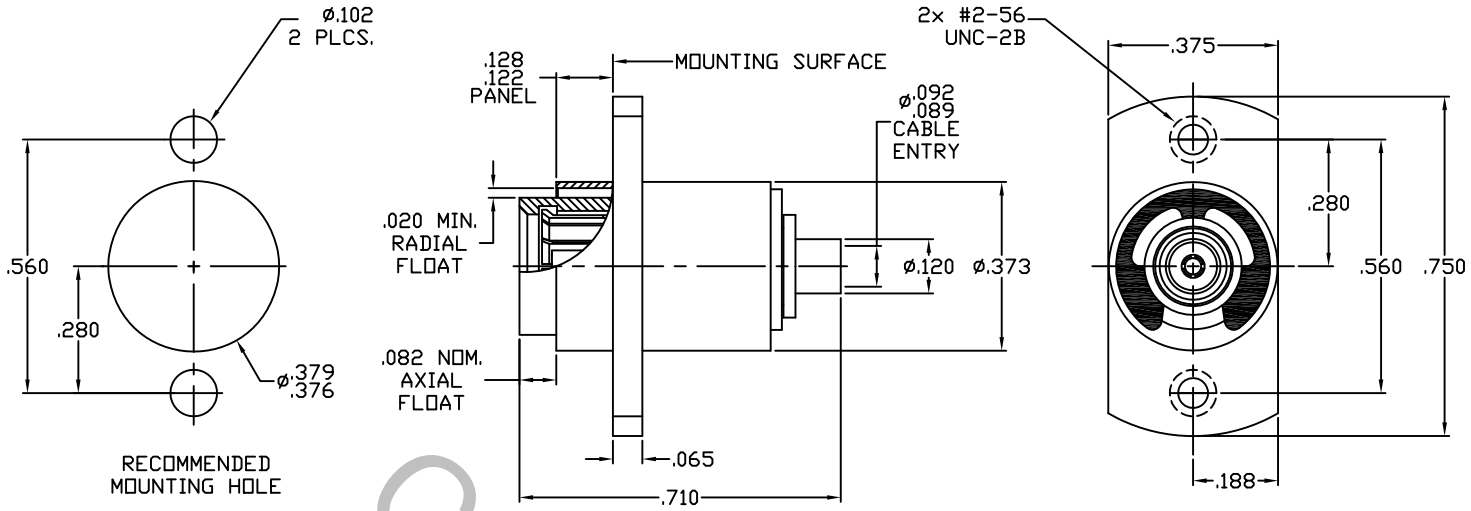
SPECIFICATION CONTROL DRAWING



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1. MATING

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

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 18.0 GHz
VSWR (MAX.) ❋	1.06 + .005 x FGHz.
INSERTION LOSS (dB MAX.)	
• BMA INTERFACE GAP (.000 TO .015)	.04 dB x $\sqrt{\text{FGHz}}$
• BMAINTERFACE GAP (.016 TO .030)	.06 dB x $\sqrt{\text{FGHz}}$
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)	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	07-1156	2/12/07	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 2/12/07

APPROVED DC DATE 2/12/07

TITLE
BMA JACK, 2 HOLE
FLANGE FLOATING REAR MOUNT
DIRECT SOLDER TO .085 S/R CABLE

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 6762-8521-6257

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT

- MIN. AXIAL FORCE — 4.0 LBS.
- MIN. RADIAL TORQUE — N/A

CENTER CONTACT AXIAL FORCES

- INSERTION (MAX. OUNCES) — INTERFACE 32.0
- WITHDRAWAL (MIN. OUNCES) — INTERFACE 2.0

CONNECTOR DURABILITY (MIN. CYCLES) — 1,000

RECOMMENDED MATING TORQUE — N/A

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

CONNECTOR BODY & FLANGE BODY	STAINLESS STEEL PER ASTM A581, TYPE 303, COND. A
CENTER CONTACT & SPRING FINGERS	BERYLLIUM COPPER PER ASTM 196/B 196M-03, COPPER ALLOY UNS-C-17800, TEMPER TD04
INSULATOR	TEFLON PER ASTM D 1710-02, TYPE 1, GRADE 1, CLASS B
CENTER CONTACT HOOD	BRASS PER ASTM B16, TEMPER H02, ALLOY C36000
RETAINING RING	SPRING STEEL PER SAE 1060-1090

6. FINISH

CONNECTOR BODY	GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 1.25, (.000050 MIN. THK.) OVER NICKEL PER QQ-N-290, (.000150 MIN. THK.)
FLANGE BODY	PASSIVATE PER AMS QQ-P-35, TYPE 2
CENTER CONTACT ASSY & SPRING FINGERS	GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 2.5, (.000100 MIN. THK.) OVER NICKEL PER QQ-N-290, (.000050 MIN. THK.) OVER COPPER PER MIL-C-14550, (.000010 MIN. THK.)
RETAINING RING	CORROSION RETARDANT PHOSPHATE COATING PER MIL-P-16232D, TYPE Z
INSULATOR	N/A