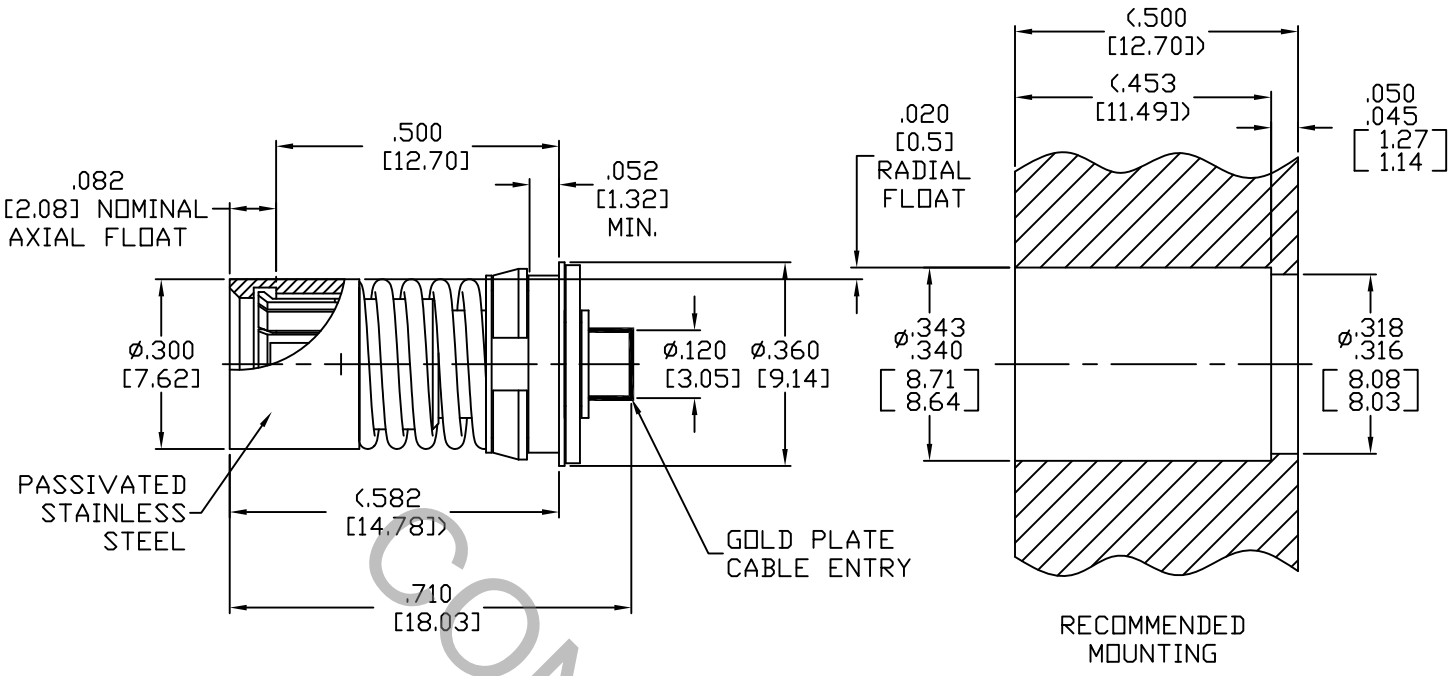
SPECIFICATION CONTROL DRAWING



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1. MATING

INTERFACE DIMENSIONS PER MIL-STD-348 Fig. 321.2 (BMA JACK)

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 18.0 GHz.
VSWR (MAX.) ❋	1.07 + .008 x FGHz.
INSERTION LOSS: (dB MAX.)	
• INTERFACE GAP (.000 TO .015)	.040 dB x $\sqrt{\text{FGHz.}}$
• INTERFACE GAP (.016 TO .030)	.060 dB x $\sqrt{\text{FGHz.}}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	300
RF LEAKAGE (MIN. dB DOWN)	
• INTERFACE BOTTOMED (.000 GAP)	-90 dB - FGHz
• INTERFACE GAP (.001 TO .015)	-75 dB - FGHz
• INTERFACE GAP (.016 TO .030)	-60 dB - FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	-65° c TO + 125° c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	1,000
INSULATION RESISTANCE (MIN. MEGOHMS)	5,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	2.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

❋ TERMINATED IN A 50 OHM LOAD

REV.	DCN NO.	DATE	APP.
AA	13-1385	3/18/13	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 TS DATE 3/18/13

APPROVED DC DATE 3/18/13

TITLE
BMA JACK, FLOATING
PANEL FEEDTHRU, REAR MOUNT
TO Ø.085 S/R CABLE

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 6760-8521-6841

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

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	STAINLESS STEEL PER ASTM-A-582, TYPE 303, COND. A
SPRING	STAINLESS STEEL PER ASTM-A-313 OR AMS 5688, TYPE 302, SPRING TEMPER
CENTER CONTACT & SPRING FINGERS	BERYLLIUM COPPER PER ASTM-B-196/B, 196M-03, COPPER ALLOY No. UNS-C-17300, 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.

6. FINISH

CONNECTOR BODY (CABLE ENTRY)	GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 1.25 (.000050 MIN. THK.) OVER NICKEL PER SAE AMS QQ-N-290, CLASS 1 (.000150 MIN. THK.) OVER WOODS OR WATTS NICKEL (.000010 MIN. THK.)
CONNECTOR BODY (AS SHOWN)	PASSIVATE PER AMS 2700, TYPE 2, CLASS 4.
SPRING	PASSIVATE PER AMS 2700, TYPE 2, CLASS 4.
CENTER CONTACT ASSY & SPRING FINGERS	GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 1.27 (.000050 MIN. THK) OVER NICKEL PER SAE AMS QQ-N-290, CLASS 1 (.000050 MIN. THK.) OVER COPPER PER AMS 2418 (.000010 MIN. THK.)
INSULATOR	N/A