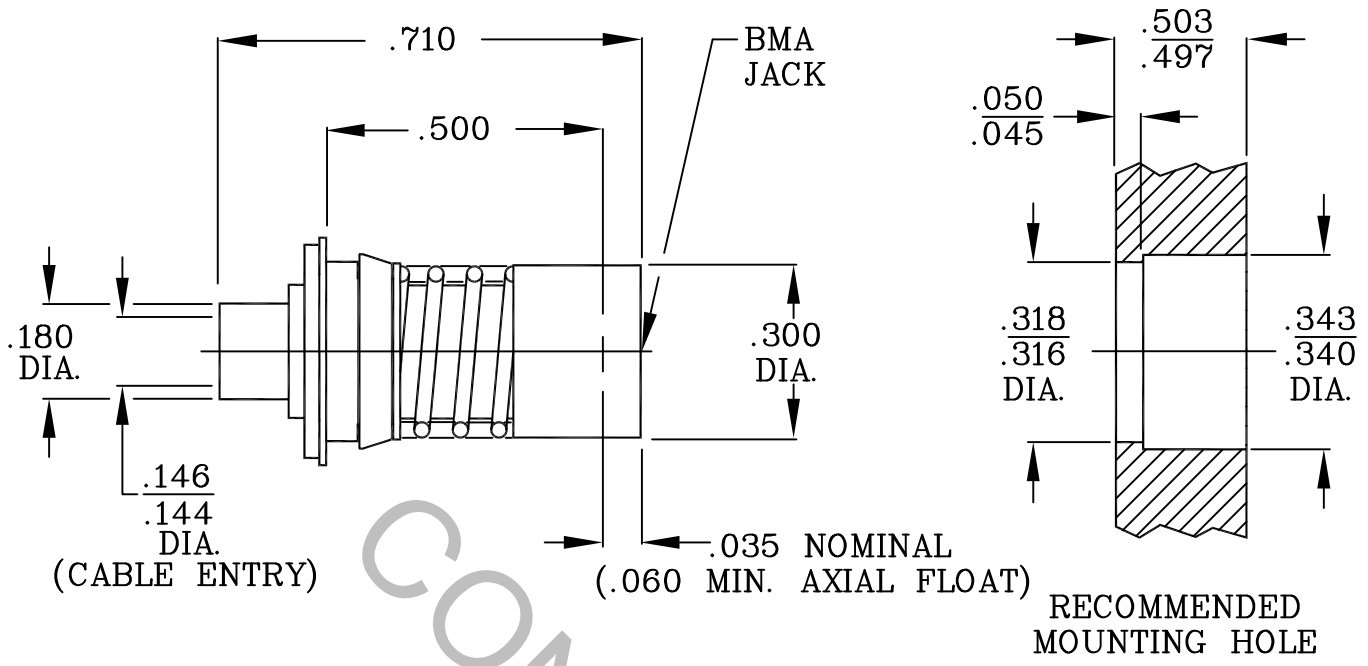
SPECIFICATION CONTROL DRAWING



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1. MATING INTERFACE DIMENSIONS PER MIL-STD-348A, Fig. 321.2 (BMA, JACK)

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 18.0 GHz.
VSWR (MAX.) ❋	1.05 + .005 x FGHz.
INSERTION LOSS (dB MAX.) ❋	
❋ BMA INTERFACE GAP (.000 TO .010)	.03dB x $\sqrt{FGHz}$.
❋ BMA INTERFACE GAP (.011 TO .020)	.06dB x $\sqrt{FHHz}$.
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	335
RF LEAKAGE (MIN. dB DOWN)	
❋ BMA INTERFACE BOTTOMED (.000 GAP)	100 dB – FGHz
❋ BMA INTERFACE GAP (.000 TO .010)	90 dB – FGHz
❋ BMA INTERFACE GAP (.011 TO .020)	75 dB – FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	−65 ° c TO +165 ° c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	1,000
INSULATION RESISTANCE (MIN. MEGOHMS)	10,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	3.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

❋ TERMINATED IN A 50 OHM LOAD

RoHS COMPLIANT

REV.	DCN NO.	DATE	APP.
AA	11-2057	12/1/11	TS

DIMENSIONS ARE IN INCHES
TOLERANCES

DECIMALS	FRACTIONAL	ANGULAR
.X ±.030 .XX ±.010 .XXX ±.005	±1/64	X ° ±1 °0' X ° X' ±15'

SURFACE ROUGHNESS 63 √ MIL-STD 10.

dynawave INCORPORATED
HAVERHILL, MA 01835

DRAWN SS DATE 12/1/11

APPROVED TS DATE 12/1/11

TITLE BMA, JACK
DIRECT SOLDER TO
.141 S.R. CABLE
BULKHEAD FLOAT MOUNT

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 6760-4121-6467

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT

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

BMA ENGAGEMENT FORCES

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

BMA DURABILITY (MIN. MATING) — 1000

4. ENVIRONMENTAL

TEMPERATURE CYCLING	MIL–STD–202, METHOD 102, COND. C (–65 ° c TO + 115 °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)

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5. MATERIAL

BODY, FERRULE, COMPRESSION SPRING, COIL SPRING	STAINLESS STEEL PER ASTM A 582, TYPE 303, COND. A.
CENTER CONTACT, RETAINING RING	BERYLLIUM COPPER PER ASTM B196/B 196M–03, COPPER ALLOY No. UNS C17300, TEMPER TD04.
CENTER CONTACT HOOD	BRASS PER ASTM–B–16, TEMPER H02, ALLOY C36000.
INSULATOR	TEFLON PER ASTM–D–1710–02, TYPE 1, GRADE 1, CLASS B.

6. FINISH

CONNECTOR BODY	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 (.000150 MIN. THK.) OVER NICKEL (WOODS OR WATTS) (.000010 MIN. THK.)
CENTER CONTACT ASSEMBLY	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
FERRULE, COMPRESSION SPRING, COIL SPRING	PASSIVATE PER AMS–2700, TYPE 2, CLASS 4.
RETAINING RING	CORROSION RETARDANT PHOSPHATE COATING PER MIL–P–16232D, TYPE Z.