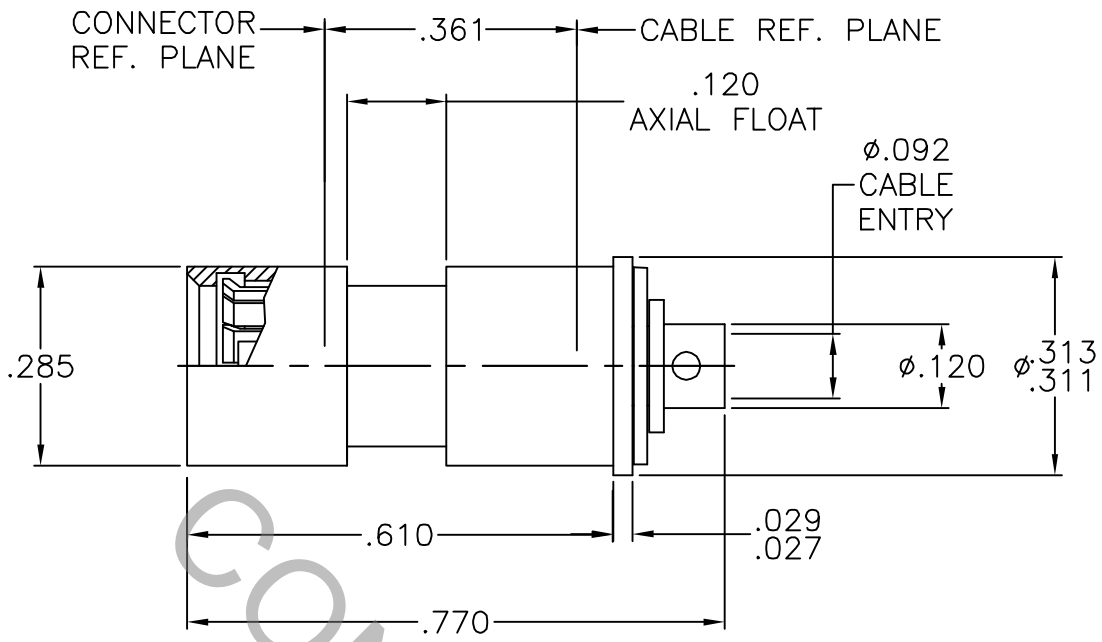
SPECIFICATION CONTROL DRAWING



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1. MATING

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

2. ELECTRICAL

FREQUENCY RANGE MHz	DC TO 22.0 GHz.
VSWR (MAX.) ❋	SEE SHEET 3
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)	
• BMA INTERFACE BOTTOMED (.000 GAP)	-90 dB - FGHz
• BMA INTERFACE GAP (.001 TO .015)	-75 dB - FGHz
• BMA 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

RoHS COMPLIANT

❋ TERMINATED IN A 50 OHM LOAD

REV.	DCN NO.	DATE	APP.
AA	12-1205	3/8/12	TS

DIMENSIONS ARE IN INCHES
TOLERANCES

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

dynawave INCORPORATED
HAVERHILL, MA. 01835

DRAWN TS DATE 3/8/12

APPROVED TS DATE 3/8/12

TITLE BMA, JACK, FLOATING REAR MOUNT PANEL DIRECT SOLDER, ø.086 S/R FITS MIL-D-38999 CIRCULAR MULTI-PIN CONNECTORS

CODE IDENT. 2J899

SHEET 1 OF 3

DWG. NO. 6760-8521-6442

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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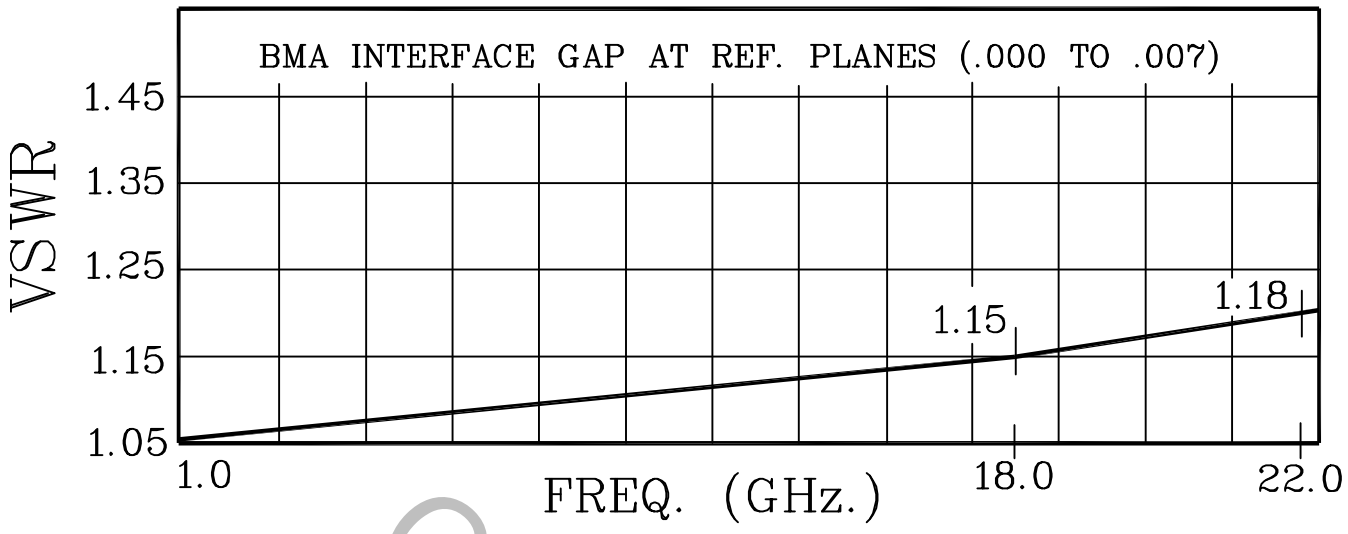
5. MATERIAL

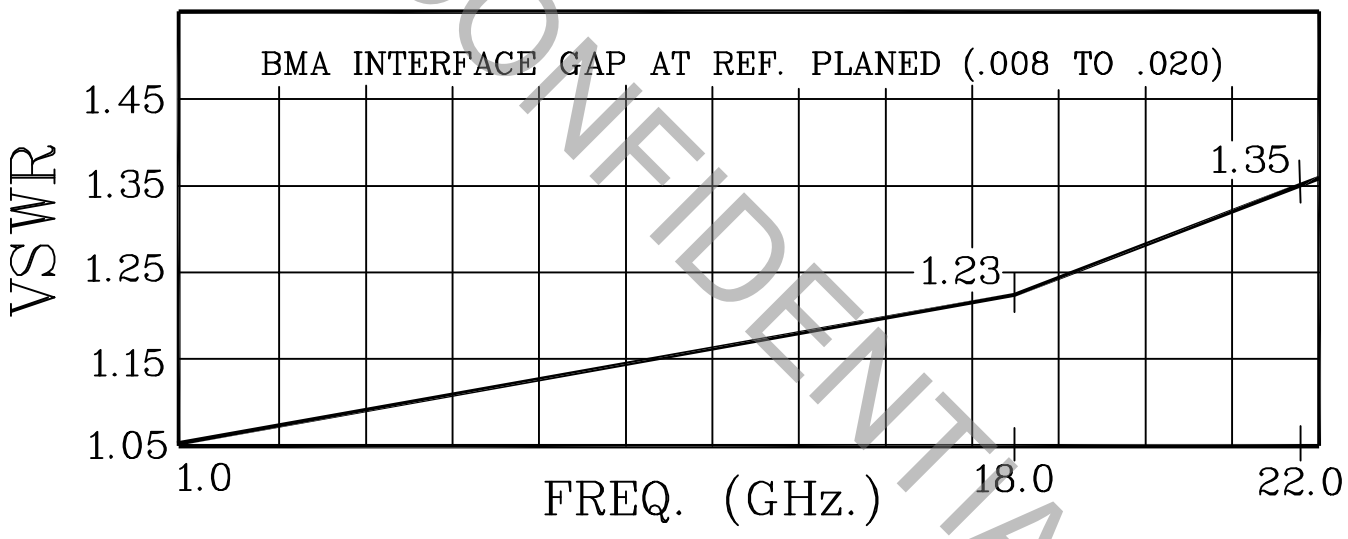
CONNECTOR BODY & FERRULE	STAINLESS STEEL PER ASTM-A-582, TYPE 303, COND. A
SPRING	STAINLESS STEEL PER ASTM-A-313 OR AMS 5688, TYPE 302, SPRING TEMPER
CENTER CONTACT & SPRING FINGERS	BERYLLIUM COPPER PER ASTM-B-196/B, 196M-03, COPPER ALLOY No. UNS-C17300, TEMPER TD04.
INSULATOR	TEFLON PER ASTM-D-1710-02, TYPE 1, GRADE 1, CLASS B.
HOOD	BRASS PER ASTM-B-16, TEMPER H02, ALLOY C36000.

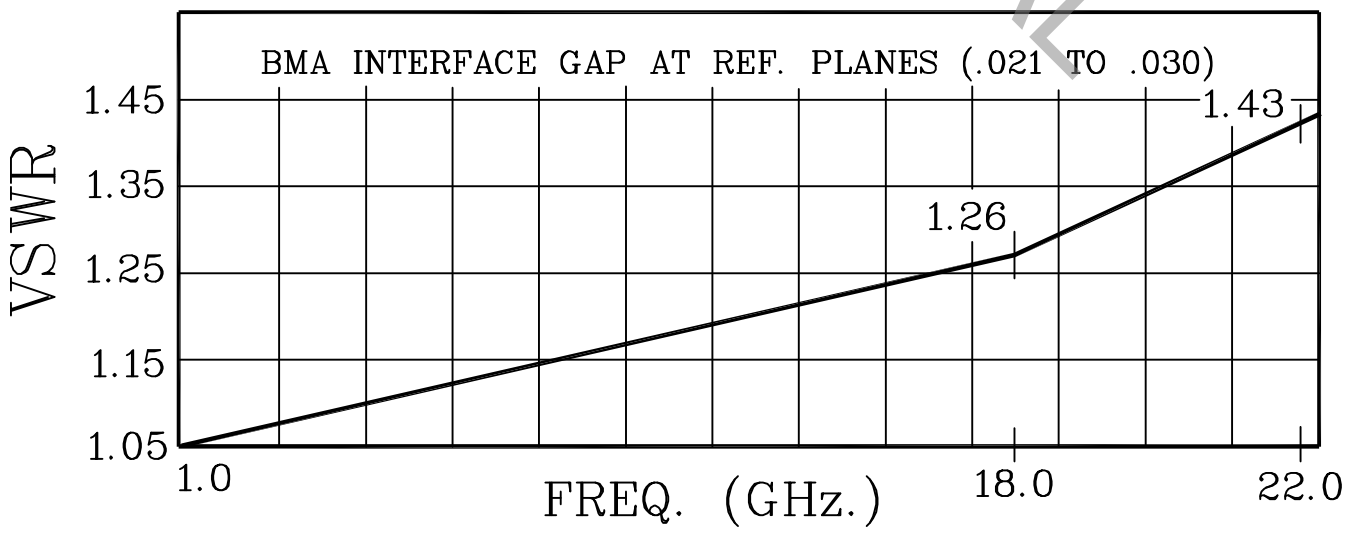
6. FINISH

CONNECTOR BODY & FERRULE	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.)
SPRING	PASSIVATE PER AMS-2700, TYPE 2, CLASS 4.
CENTER CONTACT	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.)
SPRING FINGERS	GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 0.75 (.000030-.000055 THK.) OVER COPPER PER AMS-2418 (.000010 MIN. THK.)
HOOD	GOLD PER ASTM B 488, TYPE 1, CODE C, CLASS 1.27 (.000050 MIN. THK.) OVER COPPER PER AMS-2418 (.000010 MIN. THK.)
INSULATOR	N/A

SPECIFICATION CONTROL DRAWING







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