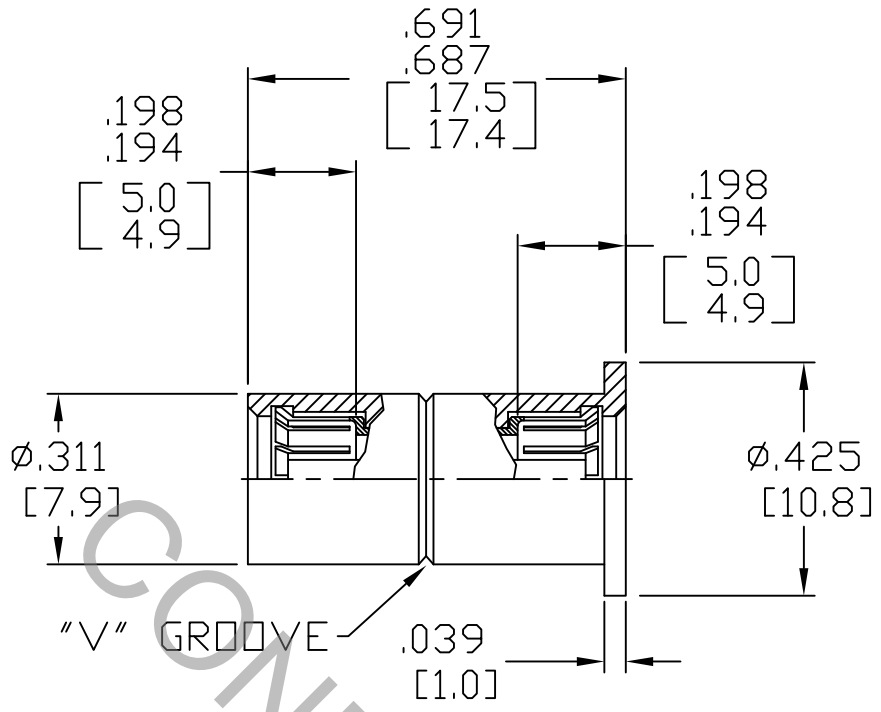
SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS Per MIL-STD-348 Fig. 321.2 (BMA JACK).

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 22.0 GHz
VSWR (MAX.) ❋	1.08 + .008 x FGHz
INSERTION LOSS (dB MAX.) ❋	.07 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	333
RF LEAKAGE (MIN. dB DOWN)	−90 dB − FGHz (FULLY MATED)
TEMPERATURE RATING (DEGREES CENTIGRADE)	−65°c TO + 165°c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	1,000
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

RoHS COMPLIANT

REV.	DCN NO.	DATE	APP.
AA	15-2545	10/28/15	TS
AB	15-2557	10/28/15	TS
AC	15-2619	11/10/15	TS
AD	15-2682	11/18/15	TS
AE	15-2690	11/19/15	TS
AF	15-2708	11/24/15	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 10/28/15

APPROVED DC DATE 10/28/15

TITLE
BMA JACK TO
BMA JACK ADAPTER

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 1100-6767-6208

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT	
MAX. AXIAL FORCE	4.5 LBS.
MAX. RADIAL TORQUE	N/A
CENTER CONTACT AXIAL FORCES	
● INSERTION (MAX. OUNCES)	INTERFACE 32.0
● WITHDRAWAL (MIN. OUNCES)	INTERFACE 2.0
CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. LBS.)	2.0
CONNECTOR DURABILITY (MIN. CYCLES)	500
RECOMMENDED MATING TORQUE	N/A
● CONNECTOR MIS–ALIGEMENT	
AXIAL MIS–ALIGMENT	.015 (0.38mm) EITHER END
RADIAL MIS–ALIGMENT	.007 (0.20mm) EITHER END

4. ENVIRONMENTAL

THERMAL SHOCK	MIL–STD–202, METHOD 107, COND. B (–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.) (250 VRMS)

5. MATERIAL

BODY	STAINLESS STEEL PER ASTM–A–582, TYPE 303, COND. A
CONTACTS & 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.
HOODS	BRASS PER ASTM–B–16, TEMPER H02, ALLOY C36000.

6. FINISH

BODY	PASSIVATE PER AMS 2700, TYPE 2, CLASS 4.
CONTACTS	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.)
HOOD	GOLD PER ASTM–B–488, TYPE 1, 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 (.000040 MIN. THK.) OVER COPPER PER AMS–2418 (.000010 MIN. THK.)
SPRING FINGERS	GOLD PER ASTM–B–488, TYPE 1, CODE C, CLASS 0.75 (.000030 – .000055 THK.) OVER NICKEL PER SAE–AMS–QQ–N–290, CLASS 1 (.000050 – .000075 THK.) OVER COPPER PER AMS–2418 (.000010 MIN. THK.)
INSULATOR	N/A