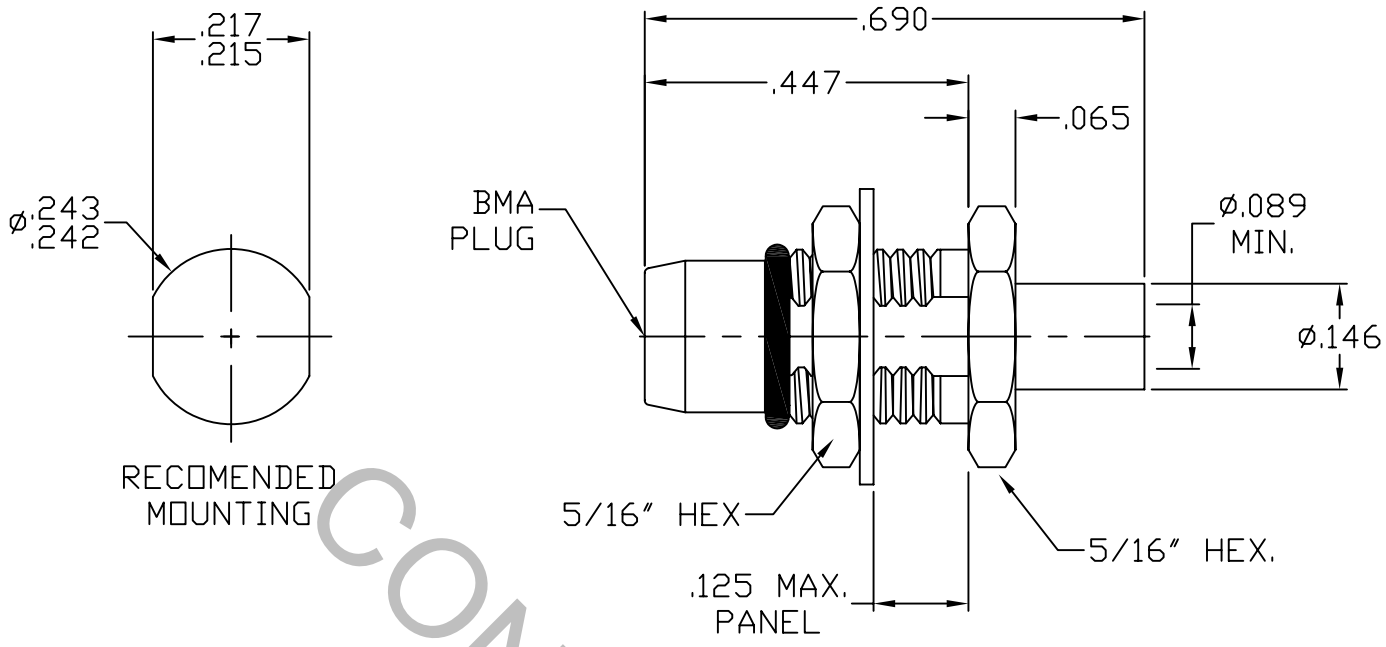
SPECIFICATION CONTROL DRAWING



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1. MATING INTERFACE DIMENSIONS PER MIL-STD-348A, Fig. 321.1 (BMA PLUG)

2. ELECTRICAL

FREQUENCY RANGE MHz	DC TO 18.0 GHz.
VSWR (MAX.)	1.05 + .005 x FGHz.
INSERTION LOSS (dB MAX.)	
• BMA INTERFACE GAP (.000 TO .015)	.03dB x $\sqrt{\text{FGHz.}}$
• BMA INTERFACE GAP (.016 TO .030)	.06dB x $\sqrt{\text{FGHz.}}$
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 (.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)	1,000
INSULATION RESISTANCE (MIN. MEGOHMS)	10,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	3.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

REV.	DCN NO.	DATE	APP.
AA	07-1741		

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 TS DATE 7/23/07

APPROVED DC DATE 7/23/07

TITLE
BMA PLUG
BULKHEAD MOUNT
TO ø.085 S.R. CABLE

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 2810-8521-6700

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT

- MIN. AXIAL FORCE ——— 4.5 LBS.
- MIN. RADIAL TORQUE ——— N/A

DYNAMATE ENGAGEMENT FORCES

- INSERTION (MAX. OUNCES) ——— REAR 32.0
- WITHDRAWAL (MIN. OUNCES) ——— REAR 1.0

DYNAMATE DURABILITY (MIN. MATING) ——— 1,000

RECOMMENDED MATING TORQUE ——— N/A

4. ENVIRONMENTAL

TEMPERATURE CYCLING	MIL–STD–202, METHOD 107, COND B (–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 (35,000 FT.) (190 VRMS)

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5. MATERIAL

CONNECTOR BODY	STAINLESS STEEL PER ASTM A 582, TYPE 303, COND. A.
CENTER CONTACT AND LOCKWASHER	BERYLLIUM COPPER PER ASTM B196/B, 196M–03, COPPER ALLOY No. UNS C17300, TEMPER TD04.
LOCKNUT	BRASS PER ASTM B16, TEMPER H02, ALLOY C36000.
INSULATOR	TEFLON PER ASTM D1710–02, TYPE 1, GRADE 1, CLASS B.

6. FINISH

CONNECTOR BODY, LOCKNUT AND LOCKWASHER	NICKEL PER QQ–N–290, CLASS 1.
CENTER CONTACT	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.).
INSULATOR	N/A