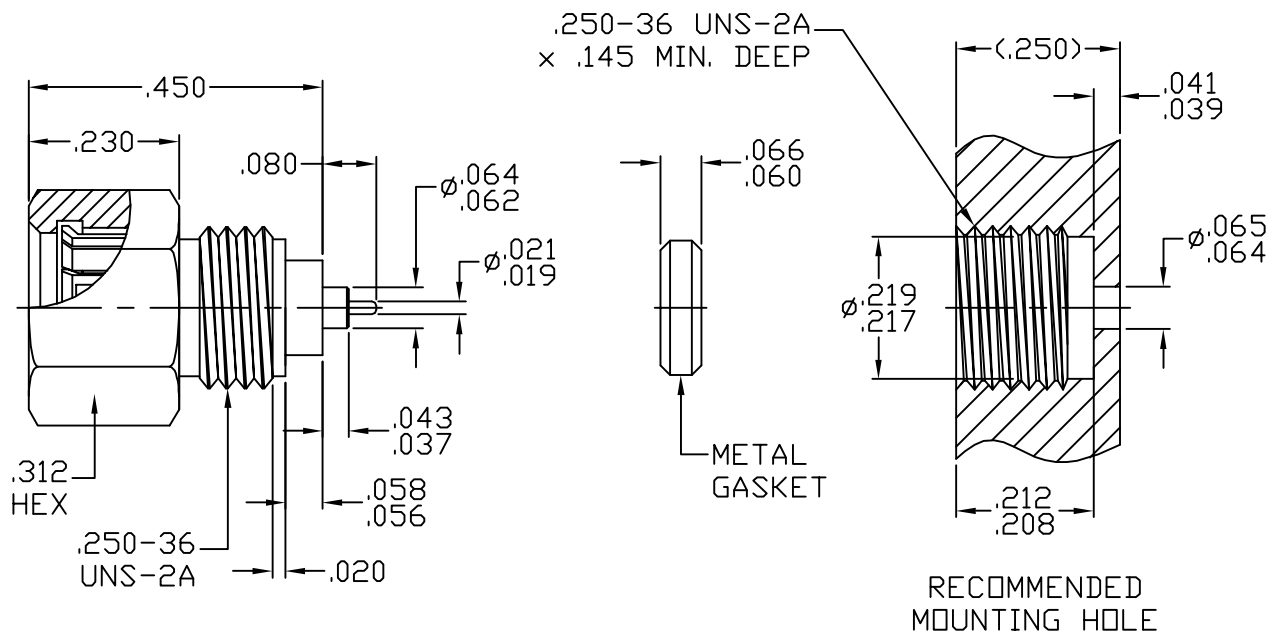


# SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS PER MIL-STD-348A, Fig. 321.2 AND DYNAWAVE SPECIFICATION MD-67 (BMA, JACK)

2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 26.5 GHz.
VSWR (MAX) *	_____	1.06 + .010 x FGHz. FULLY MATED
INSERTION LOSS (dB MAX.)	_____	SEE SHEET 3
• DYNAMATE INTERFACE GAP (.000 to .015)	_____	.040 dB x $\sqrt{\text{FGHz}}$
• DYNAMATE INTERFACE GAP (.016 to .030)	_____	.060 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	_____	50
VOLTAGE RATING (MAX. VRMS)	_____	250
RF LEAKAGE (MIN. dB DOWN)	_____	
• DYNAMATE INTERFACE BOTTOMED (.000 GAP)	_____	-100 dB - FGHz
• DYNAMATE INTERFACE GAP (.001 to .015)	_____	-90 dB - FGHz
• DYNAMATE INTERFACE GAP (.016 to .030)	_____	-75 dB - FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	_____	-65°c TO + 165°c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	_____	750
INSULATION RESISTANCE (MIN. MEGOHMS)	_____	5,000
CONTACT RESISTANCE	_____	
• CENTER CONTACT (MAX. MILLIOHMS)	_____	12.0
• OUTER CONTACT (MAX. MILLIOHMS)	_____	2.0
* TERMINATED IN A 50 OHM LOAD		

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 HAVERHILL, MA 01835
AA	06-1376	3/24/06	TS	DECIMALS	FRACTIONAL	ANGULAR	
AB	07-1047	1/16/07	DC	.X ± .030 .XX ± .010 .XXX ± .005	± 1/64	X° ± 1' 0" X° X' ± 15"	
				DRAWN TS	DATE 3/24/06	TITLE BMA JACK, HERMETIC SPARK PLUG, METAL GASKET	
				APPROVED DC	DATE 3/24/06		
				CODE IDENT. 2J899	SHEET 1 OF 3	DWG. NO. 6730-0431-6420	

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

### CAPTIVATION-CENTER CONTACT

- MIN. AXIAL FORCE \_\_\_\_\_ 6.0 LBS.
- MIN. RADIAL TORQUE \_\_\_\_\_ 1.5 IN. OZS.

### DYNAMATE ENGAGEMENT FORCES

- INSERTION (MAX. OUNCES) \_\_\_\_\_ 48.0
- WITHDRAWAL (MIN. OUNCES) \_\_\_\_\_ 2.0

DYNAMATE DURABILITY (MIN. MATING) \_\_\_\_\_ 1000

### RECOMMENDED MATING FORCES

- MIC PACKAGE (TORQUE) \_\_\_\_\_ 20-22 IN. LBS.
- PLUG CONNECTOR - INSERTION FORCE \_\_\_\_\_ 3.0 LBS. MAXIMUM

## 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 )  
HERMETICITY \_\_\_\_\_  $1 \times 10^{-8}$  cc/SEC.

## 5. MATERIAL

CONNECTOR BODY \_\_\_\_\_ STAINLESS STEEL PER ASTM-A-581, TYPE 303, COND. A.  
CENTER CONTACT AND SPRING FINGERS \_\_\_\_\_ BERYLLIUM COPPER PER ASTM-B196-90 COPPER ALLOY  
INSULATOR \_\_\_\_\_ TFE FLOUROCARBON PER ASTM-D1710  
GLASS \_\_\_\_\_ CORNING 7070  
GLASS PIN \_\_\_\_\_ KOVAR  
CONTACT HOOD \_\_\_\_\_ BRASS PER ASTM-B-16, TEMPER H02, ALLOY C36000.  
METAL GASKET \_\_\_\_\_ CARBON STEEL PER B113, CASE HARDENED.  
GASKET \_\_\_\_\_ SILICONE RUBBER PER ZZ-R-765.

## 6. FINISH

CONNECTOR BODY & GLASS PIN \_\_\_\_\_ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 1.25  
(.000050 MIN. THICKNESS) OVER NICKEL PER QQ-N-290  
(.000150 MIN. THICKNESS) OVER COPPER PER MIL-C-14550  
(.000010 MIN. THICKNESS).

CENTER CONTACT, HOOD & SPRING FINGERS \_\_\_\_\_ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 2.5  
(.000100 MIN. THICKNESS) OVER NICKEL PER QQ-N-290  
(.000050 MIN. THICKNESS) OVER COPPER PER MIL-C-14550  
(.000010 MIN. THICKNESS).

INSULATOR, GLASS & GASKET \_\_\_\_\_ N/A

METAL GASKET \_\_\_\_\_ NICKEL PER MIL-C-26074, CLASS 1  
(.000100 MIN. THICKNESS) OVER COPPER PER MIL-C-14550



SHEET 2 OF 3

DWG.  
NO.  
6730-0431-6420

REV.  
AB

# SPECIFICATION CONTROL DRAWING

