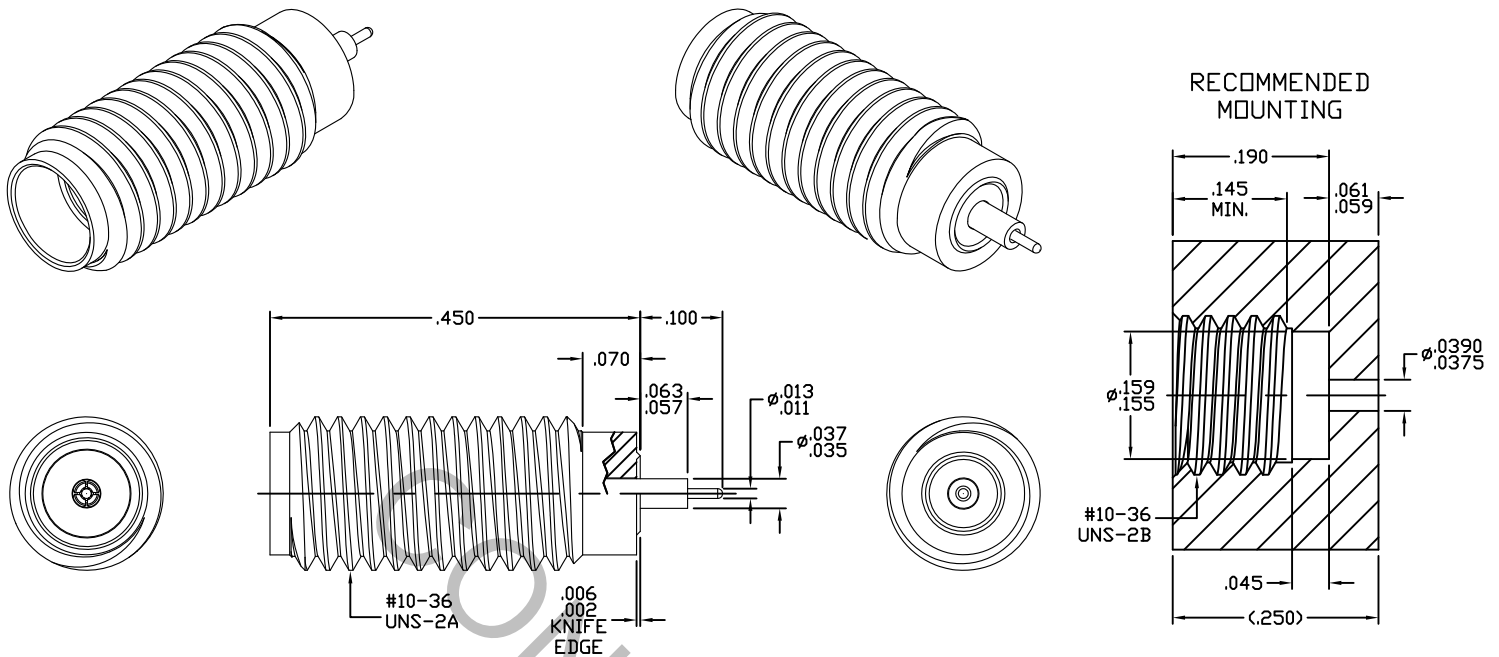


# SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS Per MIL-STD-348A Fig. 319.2 (SSMA JACK).

## 2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 38.0 GHz
VSWR (MAX.) *	_____	1.05 + .006 x FGHz
INSERTION LOSS (dB MAX.) *	_____	.050 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	_____	50
VOLTAGE RATING (MAX. VRMS)	_____	250
RF LEAKAGE (MIN. dB DOWN)	_____	-100 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)	_____	15.0
• OUTER CONTACT (MAX. MILLIOHMS)	_____	2.0

\* TERMINATED IN A 50 OHM LOAD

**RoHS**  
COMPLIANT

This Document contains proprietary and confidential information.

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 HAVERHILL, MA 01835
				DECIMALS	FRACTIONAL	ANGULAR	
-	631	1/89	DGG	.X ± .030		X ° ± 1° 0'	
A	778	11/90	DGG	.XX ± .010	± 1/64	X ° X' ± 15'	
AA	16-1593	5/11/16	DC				
				DRAWN	RF	DATE	TITLE SSMA JACK, HERMETICALLY SEALED SPARK PLUG
				APPROVED	DGG	DATE	
				CODE IDENT.		SHEET 1 OF 2	DWG. NO. 9330-0431-6460
				2J899			

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

### CAPTIVATION-CENTER CONTACT

MIN. AXIAL FORCE \_\_\_\_\_ 4.5 LBS.

MIN. RADIAL TORQUE \_\_\_\_\_ 1.5 IN. OZ.

### CENTER CONTACT AXIAL FORCES

● INSERTION (MAX. IBS.) \_\_\_\_\_ 48.0 (INTERFACE)

● WITHDRAWAL (MIN. LBS.) \_\_\_\_\_ 2.0 (INTERFACE)

CONNECTOR DURABILITY (MIN. MATING) \_\_\_\_\_ 500

### RECOMMENDED TORQUE

● INTERFACE \_\_\_\_\_ 6 - 8 IN. LBS.

● PACKAGE \_\_\_\_\_ 17 - 20 IN. LBS.

## 4. ENVIRONMENTAL

TEMPERATURE CYCLING \_\_\_\_\_ MIL-STD-202, METHOD 102, COND. C ( -65° c TO +165° c )

SHOCK \_\_\_\_\_ MIL-STD-202, METHOD 213, COND. I (100 G's)

VIBRATION (HIGH FREQUENCY) \_\_\_\_\_ MIL-STD-202, METHOD 204, COND. D (20 G's)

VIBRATION (RANDOM) \_\_\_\_\_ MIL-STD-202, METHOD 214, TEST COND. F.

THERMAL SHOCK \_\_\_\_\_ MIL-STD-202, METHOD 107, TEST COND. B, HIGH TEMP. +165° c.

MOISTURE RESISTANCE \_\_\_\_\_ MIL-STD-202, METHOD 106, LESS STEP 7b, 1000 MEGOHMS (5 MINUTES).

CORROSION \_\_\_\_\_ MIL-STD-202, METHOD 101, COND. B (48 HOURS)

BAROMETRIC PRESSURE (ALTITUDE) \_\_\_\_\_ MIL-STD-202, METHOD 105, COND. C ( 70,000 FT. ) ( 375 VRMS MIN. )

HERMETICITY \_\_\_\_\_ 1 X 10<sup>-8</sup> cc/SEC He

## 5. MATERIAL

CONNECTOR BODY \_\_\_\_\_ STAINLESS STEEL PER ASTM-A-582, TYPE 303, COND. A

CENTER CONTACT \_\_\_\_\_ BERYLLIUM COPPER PER ASTM-B-196/B, 196M-03, COPPER ALLOY No. UNS-C17300, TEMPER TD04.

INSULATORS \_\_\_\_\_ TEFLON PER ASTM-D-1710-02, TYPE 1, GRADE 1, CLASS B.

GLASS \_\_\_\_\_ CORNING 7052 (EN-1)

GLASS PIN \_\_\_\_\_ KOVAR PER MIL-I-23011

## 6. FINISH

CONNECTOR BODY \_\_\_\_\_ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 1.25 (.000050/.000100 THK.) OVER NICKEL PER SAE-AMS-QQ-N-290 CLASS 1 (.000050/.000100 THK.) OVER NICKEL (WOODS OR WATTS) (.000010 MIN. THK.)

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.)

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