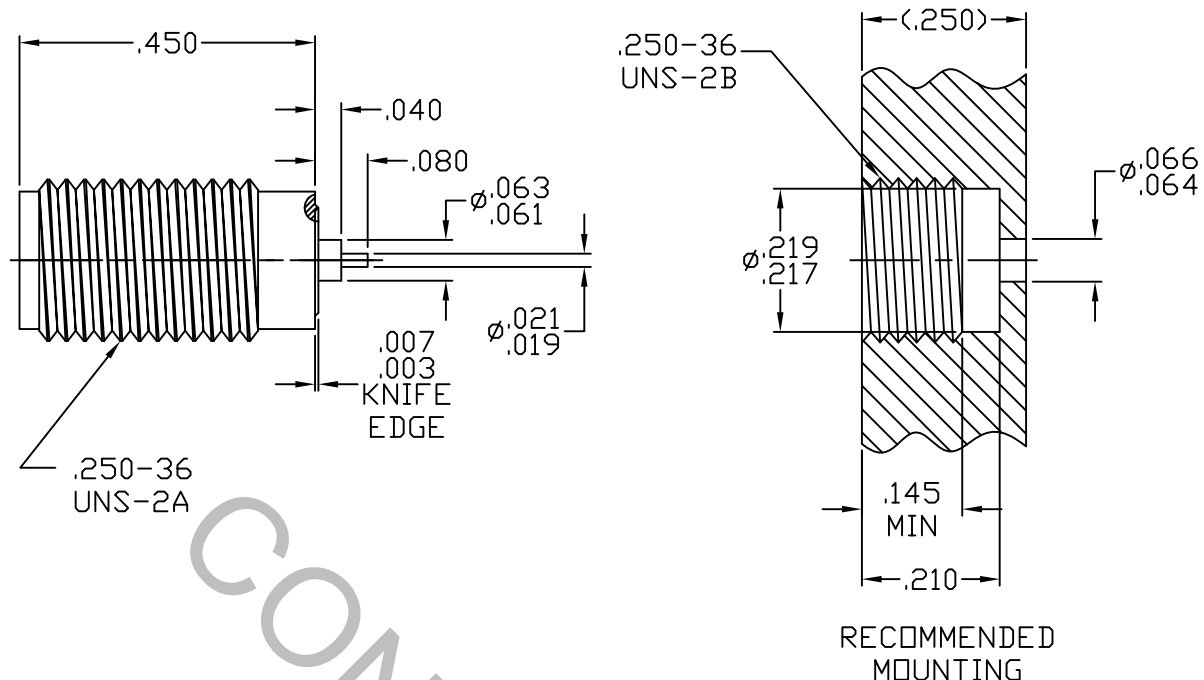


SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS FOR SMA JACK per MIL-STD-348 (Fig. 310-2).

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 26.5 GHz
VSWR (MAX) *	1.04 + .008 x FGHz.
INSERTION LOSS (dB MAX)	.04 dB x 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)	10,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	12.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

* TERMINATED IN A 50 OHM LOAD

RoHS
COMPLIANT

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 HAVERHILL MA. 01835
				DECIMALS	FRACTIONAL	ANGULAR	
-	731	2/90	TS	.X ± .030		X ° ± 1 °	
AA	09-1786	10/15/09	DC	.XX ± .010	±/64	X ° X' ± 15'	
				.XXX ± .005			
				DRAWN	TS	DATE	2/90
				APPROVED	DGG	DATE	2/90
				CODE IDENT.			
				2J899		SHEET 1 OF 2	
						DWG. NO.	9930-0431-6440

TITLE
SMA JACK
SPARK PLUG
HERMETICALLY SEALED
KNIFE EDGE

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT

MAX.AXIAL FORCE _____ 6.0 LBS.

MAX. RADIAL TORQUE _____ N/A

CENTER CONTACT AXIAL FORCES

● INSERTION (MAX. OUNCES) _____ 48.0

● WITHDRAWAL (MIN. OUNCES) _____ 2.0

CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. IN. LBS.) _____ 2.0

CONNECTOR DURABILITY (MIN. CYCLES) _____ 500

RECOMMENDED MATING TORQUE

● INTERFACE _____ 7 - 10 IN. LBS.

● PACKAGE _____ 20 - 23 IN. LBS. (99-TORQUE-22 TOOL)

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 _____ 1×10^{-8} cc/SEC.

5. MATERIAL

BODY _____ STAINLESS STEEL PER ASTM A 582, TYPE 303, COND. A.

CONTACT _____ BERYLLIUM COPPER PER ASTM B 196/B, 196M-03, COPPER ALLOY No. UNS C 17300, TEMPER TD04

INSULATOR _____ TEFLON PER ASTM D 1710-02, TYPE 1, GRADE 1, CLASS B.

GLASS PIN _____ KOVAR PER MIL-I-23011

GLASS _____ CORNING 7070

6. FINISH

BODY AND GLASS PIN _____ GOLD PER ASTM B 488, TYPE 1, CODE C, CLASS 1.25 (.000050 MIN. THK.) OVER NICKEL PER QQ-N-290, CLASS 1 (.000150 MIN. THK.) OVER NICKEL (WOODS OR WATTS), (.000010 MIN. THK.) .

CONTACT _____ GOLD PER ASTM B 488, TYPE 1, CODE C, CLASS 2.5 (.00010 MIN. THK.) OVER NICKEL PER QQ-N-290 (.000050 MIN. THK.) OVER COPPER PER MIL-C-14550 (.000010 MIN. THK.)

INSULATOR AND GLASS _____ N/A