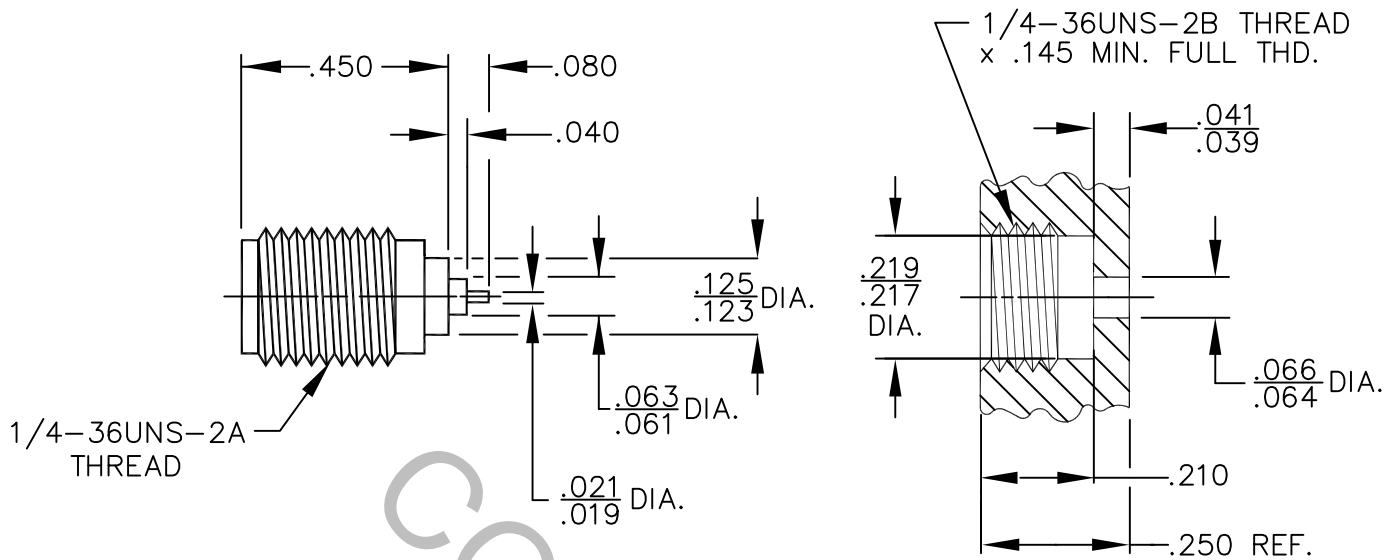


# SPECIFICATION CONTROL DRAWING




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 $\sqrt{\text{FGHz}}$
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)	_____	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	
—	1077	3/94	GL	.X ±.030 .XX ±.010 .XXX ±.005	±/64	X ° ±1 0' X ° X' ±15'	TITLE SMA, JACK SPARK PLUG HERMETICALLY SEALED
AA	09-1749	9/29/09	DC				
				DRAWN GL	DATE 3/94		
				APPROVED DGG	DATE 3/94		
				CODE IDENT. 2J899	SHEET 1 OF 2	DWG. NO. 9930-0431-6466	

# 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 ° TO + 200° )

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. ) ( 190RMS )

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

## 5. MATERIAL

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

CONTACT \_\_\_\_\_ BERYLLIUM COPPER PER ASTM B196-90, COPPER ALLOY  
No. UNS C17300, TEMPER TD04.

INSULATOR \_\_\_\_\_ TEFLON PER 4 4894

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

GLASS \_\_\_\_\_ CORNING 7070

## 6. FINISH

BODY AND GLASS PIN \_\_\_\_\_ GOLD PER MIL-G-45204, TYPE I, GRADE C, CLASS 1, OVER  
NICKEL PER QQ-N-290, (.00010 MIN. THK.)

CONTACT \_\_\_\_\_ GOLD per MIL-G-45204, TYPE II, GRADE C, CLASS 2  
(.000100 Minimum Thickness) OVER NICKEL per  
QQ-N-290, CLASS 1 (.000100 Minimum Thickness) OVER  
COPPER per MIL-C-14550 (.000010 Minimum Thickness).

INSULATOR AND GLASS \_\_\_\_\_ N/A