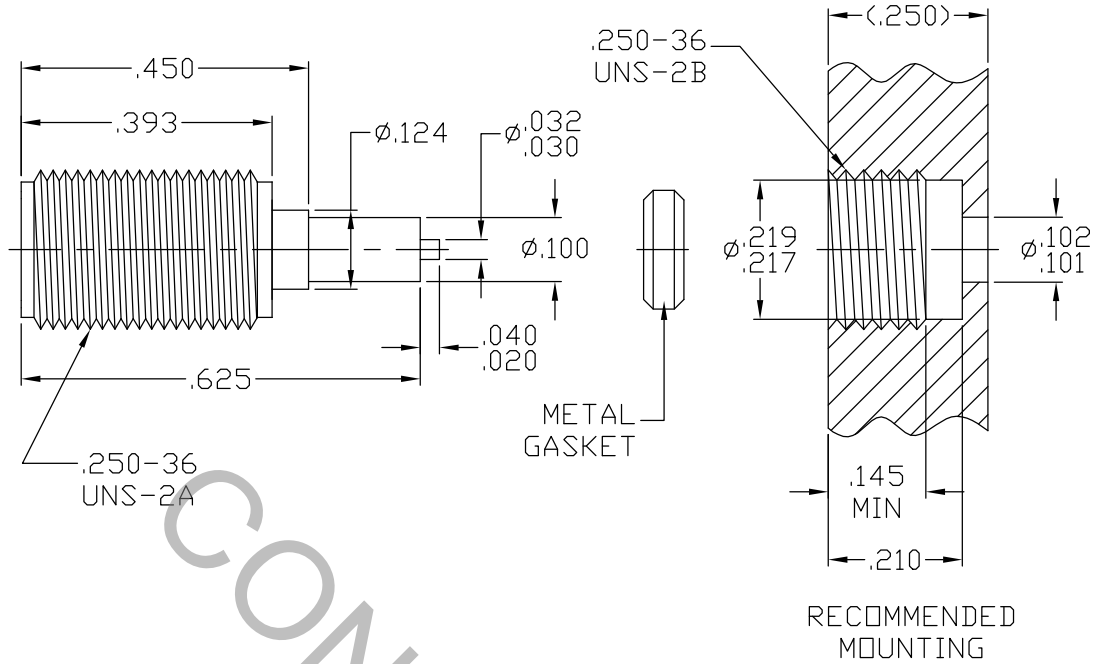


SPECIFICATION CONTROL DRAWING



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

2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 18.0 GHz
VSWR (MAX.) *	_____	1.06 + .008 x FGHZ.
INSERTION LOSS (dB MAX.)	_____	.045 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

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 HAVERHILL MA. 01835
AA	05-1140	2/4/05	DC	DECIMALS	FRACTIONAL	ANGULAR	
				.X ± .030	±/64	X ° ± 1 '0"	TITLE SMA JACK SPARK PLUG HERMETICALLY SEALED METAL GASKET
				.XX ± .010		X ° X' ± 15'	
				.XXX ± .005			
				DRAWN	DC	DATE	
				APPROVED	DC	DATE	2/4/05
				CODE IDENT.	SHEET 1 OF 2		DWG. NO. 9930-0431-6432
				2J899			

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) _____ 32.0
 ● 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 (USE TOOL 99-TORQUE-22) _____ 20 - 23 IN. LBS.

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 AMS-5640, TYPE 303, COND. A
 CONTACT _____ BERYLLIUM COPPER PER QQ-C-530, ALLOY 173, COND. H.T.
 INSULATOR _____ TEFLON PER MIL-P-19468, AND L-P-403, TYPE I
 GLASS PIN _____ KOVAR PER MIL-I-23011
 GLASS _____ CORNING 7070
 METAL GASKET _____ CARBON STEEL PER B1113, CASE HARDENED
 CONTACT, REAR _____ BRASS PER ASTM B16, TEMPER H02, ALLOY C36000

6. FINISH

BODY _____ GOLD PER MIL-G-45204, TYPE II, GRADE C, CLASS 1, OVER NICKEL PER QQ-N-290, (.00010 MIN. THK.)
 CONTACTS _____ 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).
 METAL GASKET _____ NICKEL PER MIL-C-26074, CLASS 1, (.0001 MIN. THK.) OVER COPPER PER MIL-C-14550, CLASS 4
 GLASS AND INSULATOR _____ N/A