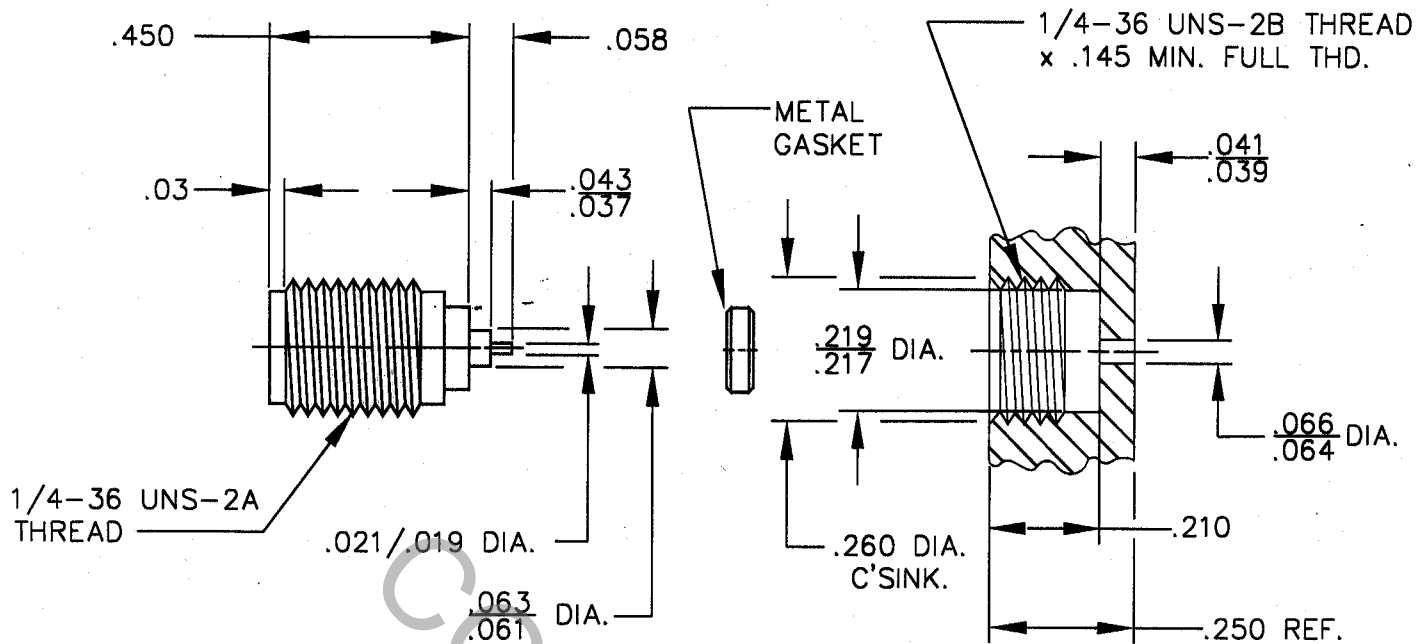


SPECIFICATION CONTROL DRAWING



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{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			GEORGETOWN MA. 01833
AA	02-0882	10/22/02	BN	DECIMALS X ± .030 XX ± .010 XXX ± .005	FRACTIONAL ±/64	ANGULAR X ° ± 1 0' X ° X' ± 15'	
				DRAWN	G.E.	DATE 10/22/02	TITLE SMA, JACK SPARK PLUG HERMETICALLY SEALED METAL GASKET
				APPROVED	BN	DATE 10/22/02	
				CODE IDENT.	SHEET 1 OF 2		DWG. NO. 9930-0431-6222
				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)	_____	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	_____	28 - 30 IN. LBS.

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	_____	1×10^{-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

6. FINISH

BODY AND GLASS PIN	_____	PASSIVATED PER QQ-P-35A, TYPE I
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).
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