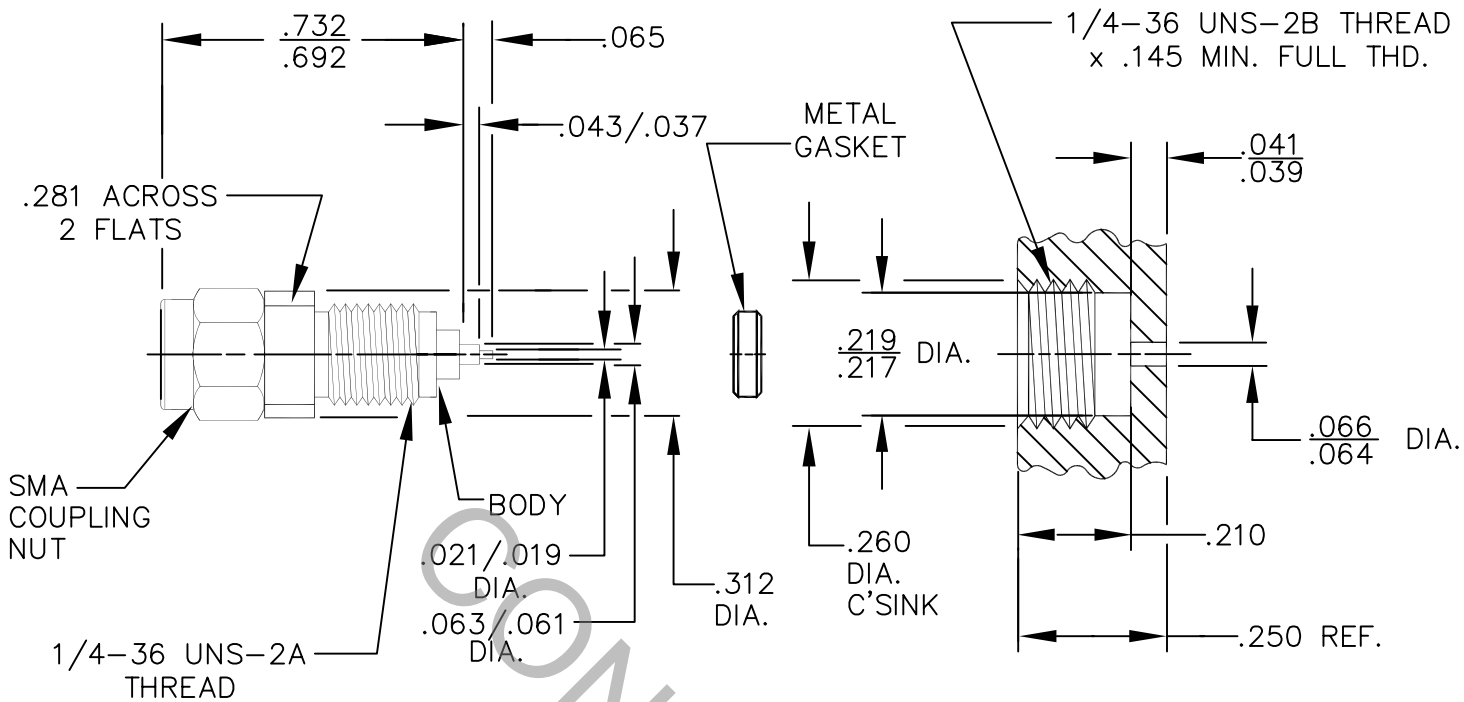


SPECIFICATION CONTROL DRAWING




1. MATING INTERFACE DIMENSIONS FOR SMA PLUG per MIL-STD-348 (Fig. 210-1).

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

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 HAVERHILL, MA. 01835
				DECIMALS	FRACTIONAL	ANGULAR	
—	347	4/87	DGG	.X ±.030 .XX ±.010 .XXX ±.005	±/64	X ° ±1 0' X ° X' ±15'	TITLE SMA PLUG, SPARK PLUG HERMETICALLY SEALED METAL GASKET
A	610	11/88	DGG				
				DRAWN	CDM	DATE 4/87	
				APPROVED	DGG	DATE 4/87	
				CODE IDENT.	SHEET 1 OF 2		DWG. NO. 9830-0431-6425
				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 °c 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.) (190VRMS)
HERMETICITY _____	1 x 10 ⁻⁸ cc/SEC.

5. MATERIAL

BODY AND COUPLING NUT _____	STAINLESS STEEL PER AMS-5640, TYPE 303, COND. A
CONTACT AND RETAINING RING _____	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
RUBBER GASKET _____	SILVER PLATED ALUMINUM IN SILICONE

6. FINISH

BODY AND GLASS PIN _____	GOLD PER MIL-G-45204, TYPE II, 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).
METAL GASKET _____	NICKEL PER MIL-C-26074, CLASS 1, (.0001 MIN. THK.) OVER COPPER PER MIL-C-14550, CLASS 4
RETAINING RING, INSULATOR AND RUBBER GASKET _____	N/A
COUPLING NUT _____	PASSIVATE PER QQ-P-35A, TYPE I