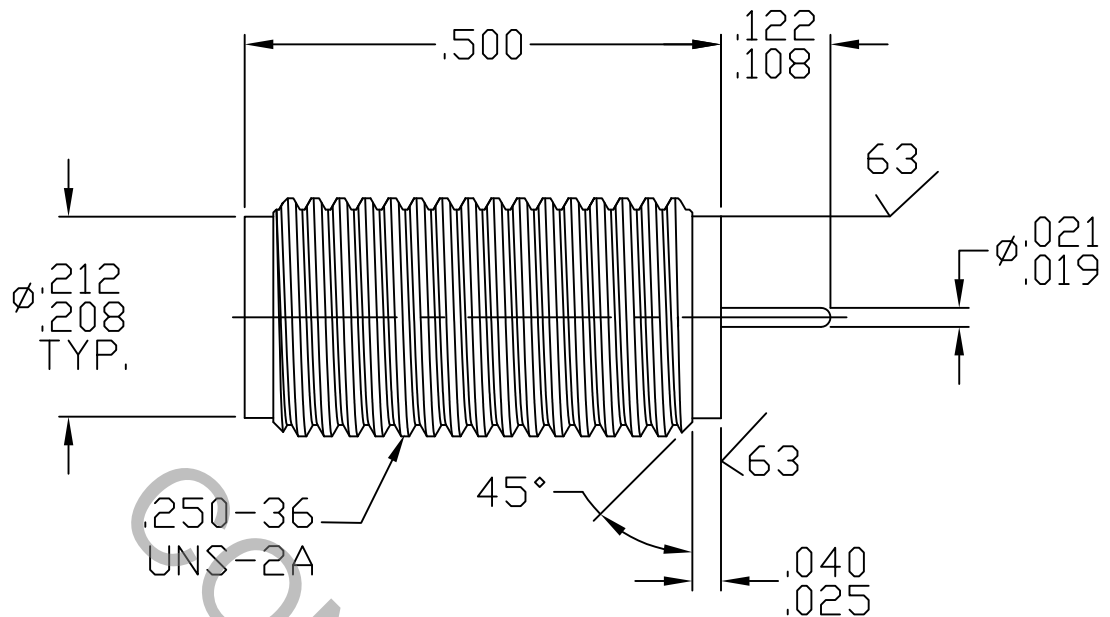


SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS Per MIL-STD-348 Fig. 310.2 (SMA JACK).


2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 18.0 GHz
VSWR (MAX) *	1.06 + .006 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)	10.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

* TERMINATED IN A 50 OHM LOAD

RoHS
COMPLIANT

This Document contains proprietary and confidential information.

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES	 HAVERHILL, MA 01835
AA	03-2183	9/18/03	DC	DECIMALS $.X \pm .030$ $.XX \pm .010$ $.XXX \pm .005$	
AB	17-2096	9/15/17	TS	FRACTIONAL $\pm 1/64$	
				ANGULAR $X^\circ \pm 1^\circ 0'$ $X^\circ X' \pm 15'$	TITLE SMA, JACK SPARK PLUG HERMETICALLY SEALED WITHOUT KNIFE EDGE
				DRAWN BN DATE 9/18/03	
				APPROVED DC DATE 4/11/13	
				CODE IDENT. 2J899	DWG. NO. 9930-0432-6400
				SHEET 1 OF 2	

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT

MAX AXIAL FORCE _____ 6.0 LBS.

MAX RADIAL TORQUE (GLASS PIN ONLY) _____ 4.0 IN. OZS.

CENTER CONTACT AXIAL FORCES

● INSERTION (MAX. OUNCES) _____ 48.0

● WITHDRAWAL (MIN. OUNCES) _____ 2.0

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

CONNECTOR DURABILITY (MIN. CYCLES) _____ 500

RECOMMENDED MATING TORQUE _____ 7 - 10 IN. LBS.

RECOMMENDED PACKAGE TORQUE _____ 20 - 23 IN. LBS.

RECOMMENDED TORQUE TOOL : 99-TORQUE-22

4. ENVIRONMENTAL

TEMPERATURE CYCLING _____ MIL-STD-202, METHOD 102, COND. C (-65° c TO + 165° 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.

* CONNECTOR HAS NO MEANS OF SEALING TO THE HOUSING, METAL RING OR GASKETS MUST BE USED

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-C17300, 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 II, CODE C, CLASS 1
(.000010 MIN. THK.) OVER NICKEL PER SAE-AMS-QQ-N-290
CLASS 1 (.000015 MIN. THK.) OVER COPPER PER AMS-2418
(.000010 MIN. THK.)

CONTACT _____ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 1.27
(.000050 MIN. THK.) OVER NICKEL PER SAE-AMS-QQ-N-290
CLASS 1 (.000050 MIN. THK.) OVER COPPER PER AMS-2418
(.000010 MIN. THK.)

INSULATOR & GLASS _____ N/A