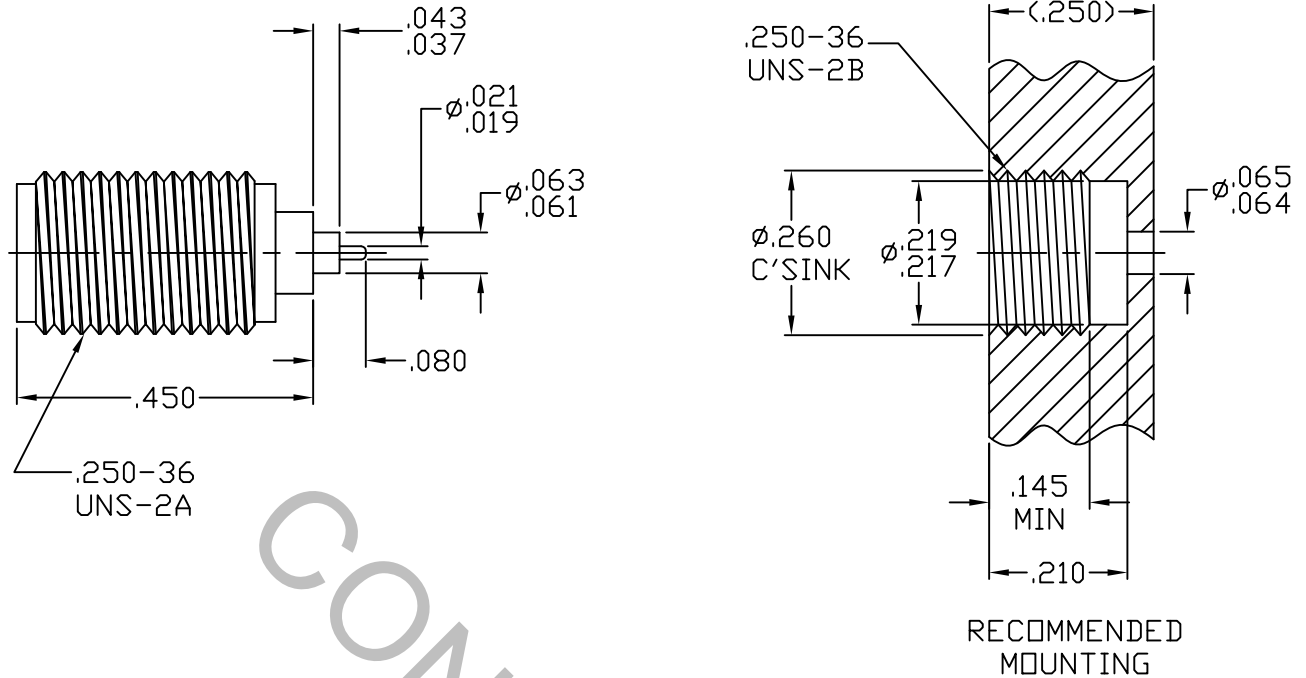


SPECIFICATION CONTROL DRAWING



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

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

This Document contains proprietary and confidential information.

| REV. | DCN NO. | DATE | APP. | DIMENSIONS ARE IN INCHES TOLERANCES | | | HAVERHILL MA. 01835 |
|------|---------|--------|------|--|--------------|--------------|--|
| AA | 15-1536 | 4/7/15 | TS | DECIMALS | FRACTIONAL | ANGULAR | |
| | | | | .X ± .030 | | X ° ± 1° 0' | TITLE SMA JACK SPARK PLUG HERMETICALLY SEALED WITHOUT METAL GASKET |
| | | | | .XX ± .010 | ± 1/64 | X ° X' ± 15' | |
| | | | | .XXX ± .005 | | | |
| | | | | DRAWN | TS | DATE | 4/7/15 |
| | | | | APPROVED | DC | DATE | 4/7/15 |
| | | | | CODE IDENT. | | | DWG. NO. 9930-0431-6266 |
| | | | | 2J899 | SHEET 1 OF 2 | | |

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.

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 ASTM A 581, 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 _____ PASSIVATE PER AMS 2700, TYPE 2, CLASS 4.

GLASS PIN _____ GOLD PER ASTM-B-488, TYPE 1, CODE C, CLASS 1.25
(.000050 MIN. THK.) OVER COPPER PER AMS 2418 (.000010 MIN. THK.)

CONTACT _____ GOLD PER ASTM-B-488, TYPE 1, CODE C, CLASS 1.25
(.000050 MIN. THK.) OVER NICKEL PER SAE AMS QQ-N-290, CLASS 1
(.000050 MIN. THK.) OVER COPPER PER AMS 2418 (.000010 MIN. THK.)

GLASS AND INSULATOR _____ N/A