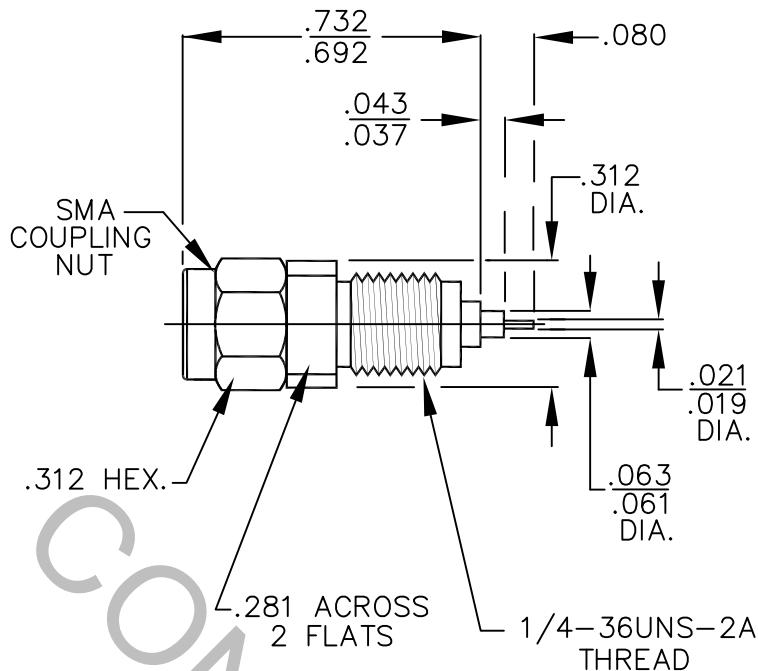


SPECIFICATION CONTROL DRAWING



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

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

RoHS
COMPLIANT

| REV. | DCN NO. | DATE | APP. | DIMENSIONS ARE IN INCHES TOLERANCES | | | HAVERHILL MA. 01835 |
|------|---------|----------|------|--|------------|--------------------------|---|
| | | | | DECIMALS | FRACTIONAL | ANGULAR | |
| AA | 03-2196 | 9/19/03 | DC | .X ±.030 .XX ±.010 .XXX ±.005 | ±/64 | X ° ±1 0' X ° X' ±15' | |
| AB | 09-1782 | 10/14/09 | DC | | | | |
| | | | | DRAWN | DC | DATE | TITLE SMA PLUG, SPARK PLUG HERMETICALLY SEALED |
| | | | | APPROVED | DC | DATE | |
| | | | | CODE IDENT. | | SHEET | DWG. NO. 9830-0431-6466 |
| | | | | 2J899 | | 1 OF 2 | |

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

| | |
|--|-----------------|
| CAPTIVATION-CENTER CONTACT | |
| MAX.AXIAL FORCE _____ | 6.0 LBS. |
| MAX. RADIAL TORQUE _____ | 2.0 |
| CENTER CONTACT AXIAL FORCES | |
| ● INSERTION (MAX. OUNCES) _____ | 48.0 |
| ● WITHDRAWAL (MIN. OUNCES) _____ | 1.0 |
| CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. IN. LBS.) _____ | 2.0 |
| CONNECTOR DURABILITY (MIN. CYCLES) _____ | 500 |
| RECOMMENDED MATING TORQUE | |
| ● INTERFACE _____ | 7 - 10 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 x 10 ⁻⁸ cc/SEC. |

5. MATERIAL

| | |
|---------------------------------------|--|
| CONNECTOR 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 |
| RUBBER GASKET _____ | SILICONE RUBBER PER ZZ-R-765, CLASS IIB, GRADE 50 OR 60. |

6. FINISH

| | |
|------------------------------------|--|
| CONNECTOR BODY AND GLASS PIN _____ | GOLD PER MIL-G-45204, TYPE II, GRADE C, CLASS 1, OVER NICKEL PER QQ-N-290, (.00010 MIN. THK.) |
| COUPLING NUT _____ | PASSIVATE 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). |
| INSULATOR AND RETAINING RING _____ | N/A |