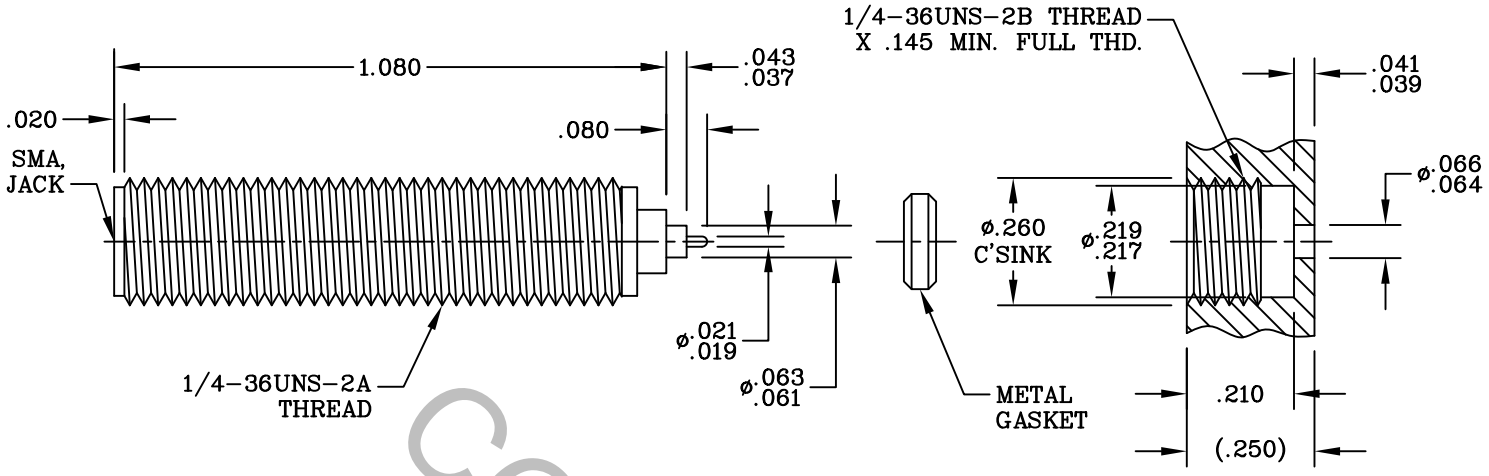
# SPECIFICATION CONTROL DRAWING






1. MATING INTERFACE DIMENSIONS FOR SMA JACK PER MIL-STD-348A, Fig. 310-2 (SMA, JACK)

2. ELECTRICAL

| | |
|---|---|
| FREQUENCY RANGE GHz | DC TO 26.5 GHz |
| VSWR (MAX.) ❋ | 1.15 + .025 x FGHz. |
| INSERTION LOSS (dB MAX.) ❋ | .20 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 |

❋ TESTED WITH 9930-T431-6220 (DOES NOT INCLUDE THIS TEST ADAPTER).

**RoHS** COMPLIANT



| REV. | DCN NO. | DATE | APP. |
|---|---|---|---|
| AA | 10-1113 | 2/3/10 | TS |
| AB | 14-1307 | 3/14/14 | TS |
| AC | 14-1338 | 3/20/14 | DC |
| | | | |
| | | | |
| | | | |
| | | | |

DIMENSIONS ARE IN INCHES
TOLERANCES
DECIMALS .X ±.030 .XX ±.010 .XXX ±.005
FRACTIONAL ±1/64
ANGULAR X °±1 0' X ° X' ±15'

dynawave INCORPORATED
HAVERHILL MA. 01835

DRAWN TS DATE 2/3/10
APPROVED TS DATE 2/3/10

TITLE SMA, JACK SPARK PLUG HERMETICALLY SEALED, MIC. PKG. METAL GASKET

CODE IDENT. 2J899
SHEET 1 OF 2
DWG. NO. 9930-0431-6417

# 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) — 32.0
- 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.
- 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 x $10^{-8}$ cc/SEC. |



## 5. MATERIAL

| | |
|---|---|
| BODY | STAINLESS STELL PER ASTM A 582, TYPE 303, COND. A. |
| CONTACT | BERYLLIUM COPPER PER ASTM B 196/B, 196M–03, COPPER ALLOY No. UNS C 17300, 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 |
| METAL GASKET | CARBON STEEL PER B113, CASE HARDENED |

## 6. FINISH

| | |
|---|---|
| BODY, METAL GASKET AND GLASS PIN | **GOLD PER ATSM B 488, TYPE I, 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.)** |
| CONTACT | **GOLD PER ATSM 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 AND GLASS | N/A |