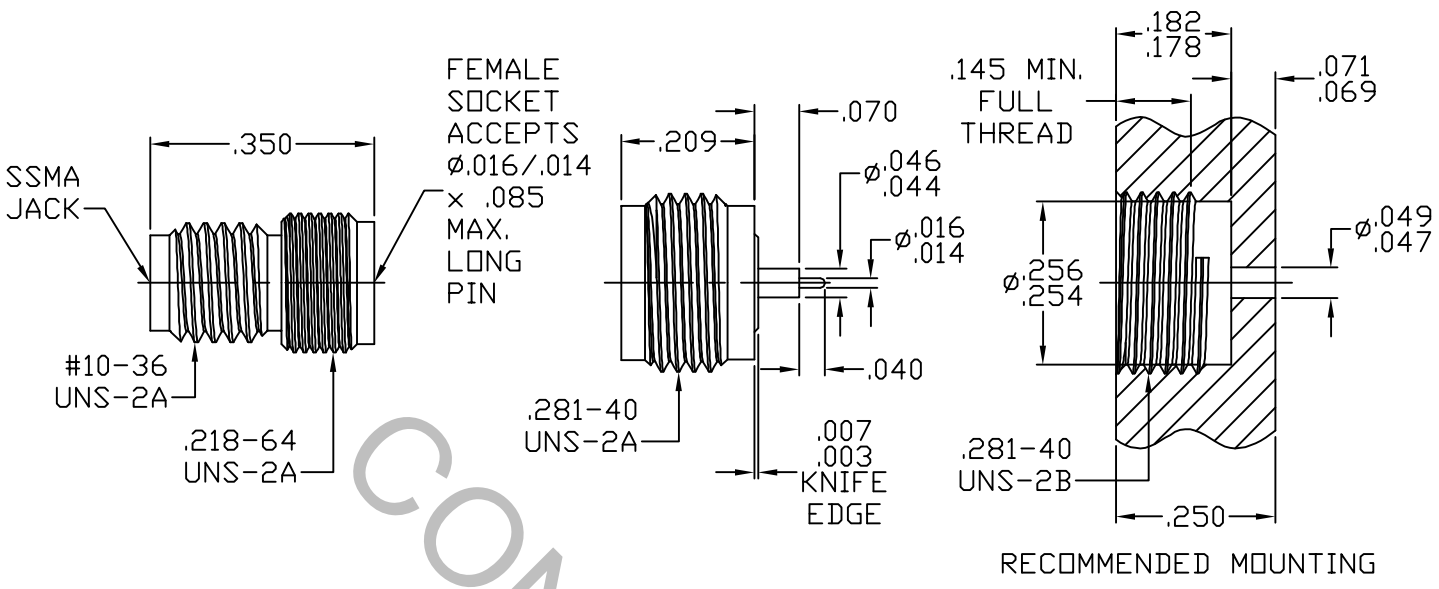
SPECIFICATION CONTROL DRAWING



1. MATING

INTERFACE DIMENSIONS per MIL-STD-348 Fig. 319-2 (SSMA JACK).

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 26.5 GHz
VSWR (MAX.) ✱	1.07 + .008 x FGHz
INSERTION LOSS (dB MAX.) ✱	.04 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	170
RF LEAKAGE (MIN. dB DOWN)	−100 dB − FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	−65°c TO + 165°c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	500
INSULATION RESISTANCE (MIN. MEGOHMS)	5,000
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.
AA	07-1595	6/12/07	DC

DIMENSIONS ARE IN INCHES
TOLERANCES

DECIMALS	FRACTIONAL	ANGULAR
.X ±.030 .XX ±.010 .XXX ±.005	± 1/64	X °±1°0' X °X' ±15'

dynawave INCORPORATED
HAVERHILL, MA. 01835

DRAWN DC DATE 6/12/07

APPROVED DC DATE 6/12/07

TITLE
SSMA JACK
"SPARK PLUG"
HERMETICALLY SEALED
FIELD REPLACEABLE

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 9333-0431-6215

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT and GLASS PIN

- MIN. AXIAL FORCE (BOTH) — 6.0 LBS.
- MIN. RADIAL TORQUE (GLASS PIN) — 1.5 IN. OZ.

CENTER CONTACT MATING FORCES

- INSERTION (MAX. OUNCES) — 48.0 INTERFACE; 32.0 REAR
- WITHDRAWAL (MIN. OUNCES) — 2.0 INTERFACE; 1.0 REAR

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

CONNECTOR DURABILITY (MIN. CYCLES) — 500

RECOMMENDED MATING TORQUE

- SMA CONNECTOR/GLASS SEAL ASSY. — 28–30 IN.LBS.
- SMA CONNECTOR – REVERSE TORQUE — 15 IN. LBS. MIN.
- SMA CONNECTOR INTERFACE — 7–10 IN.LBS.

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^{-9} cc/SEC.

5. MATERIAL

CONNECTOR and GLASS BODY	STAINLESS STEEL PER ASTM–A–582, TYPE 303, COND. A
CENTER CONTACT	BERYLLIUM COPPER PER ASTM–B–196–90, COPPER ALLOY No. UNS–C17300, TEMPER TD04.
INSULATOR	TEFLON PER ASTM–D–1710
GLASS	CORNING 7070
GLASS, MALE PIN	KOVAR
GASKET	SILICON RUBBER PER ZZ–R–765

6. FINISH

GLASS BODY AND PIN	**GOLD per ASTM–B–488, TYPE I, CODE C, CLASS 1.25 (.000050 Min. Thk.) OVER NICKEL per QQ–N–290, CLASS 1 (.000150 Min. Thk.) OVER COPPER per MIL–C–14550 (.000010 Min. Thk.).**
CENTER CONTACT	**GOLD per ASTM–B–488, TYPE I, CODE C, CLASS 2.5 (.000100 Min. Thk.) OVER NICKEL per QQ–N–290, CLASS 1 (.000050 Min. Thk.) OVER COPPER per MIL–C–14550 (.000010 Min. Thk.).**
CONNECTOR BODY	PASSIVATE PER QQ–P–35A, TYPE I.
GASKET	N/A