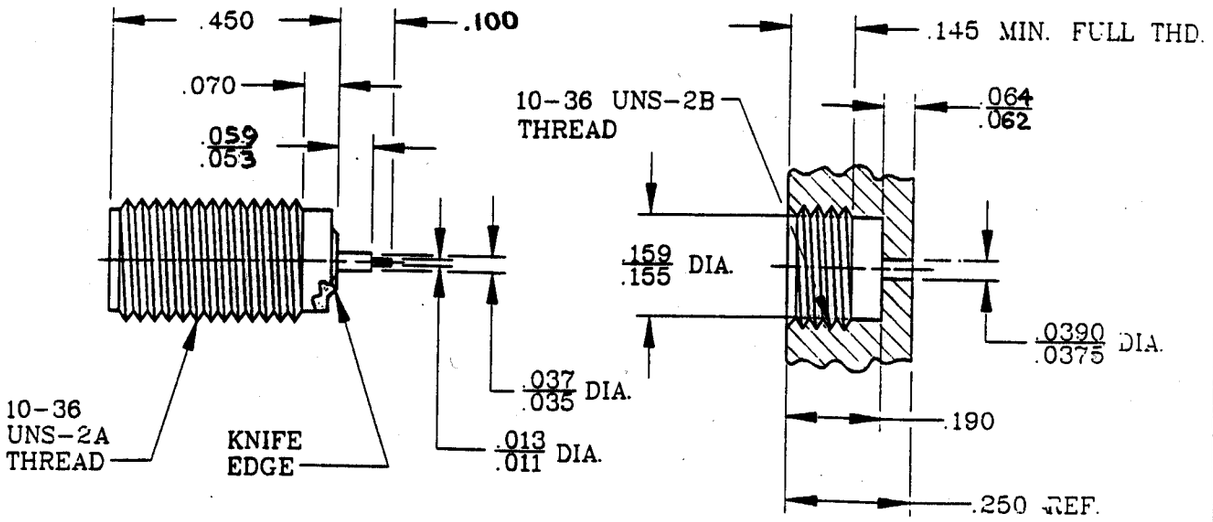
SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS FOR SSMA JACK per DYNAWAVE DRAWING MD-93.

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 38 GHz
VSWR (MAX.) *	1.05 + .006 x FGHz
INSERTION LOSS (dB MAX.) *	.05 dB x $\sqrt{FGHz}$
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)	5,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	15.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

* TERMINATED IN A 50 OHM LOAD

REV.	DCN NO.	DATE	APP.
—	1009	M.B.	9/93

DIMENSIONS ARE IN INCHES
TOLERANCES

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

dynawave INCORPORATED
GEORGETOWN MA. 01833

DRAWN M.B DATE 9/93

APPROVED DATE 9/93

TITLE
SSMA, JACK
HERMETICALLY SEALED
SPARK PLUG

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 9330-0431-6466

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT	
MAX AXIAL FORCE	4.5 LBS.
MAX. RADIAL TORQUE	1.5 IN. OZ.
CENTER CONTACT AXIAL FORCES	
● INSERTION (MAX. OUNCES)	40.0
● WITHDRAWAL (MIN. OUNCES)	1.0
CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. IN. LBS.)	2.0
CONNECTOR DURABILITY (MIN. CYCLES)	500
RECOMMENDED MATING TORQUE	
● INTERFACE	6 – 8 IN. LBS.
● PACKAGE	17 – 20 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 STEEL PER AMS-5640, TYPE 303, COND. A
CONTACT	BERYLLIUM COPPER PER QQ-C-530 ALLOY 173, COND HT
INSULATOR	TEFLON PER MIL-P-19468, AND L-P-403, TYPE I
GLASS PIN	KOVAR PER MIL-I-23011
GLASS	CORNING 7052

6. FINISH

BODY and GLASS PIN	GOLD per MIL-G-45204, TYPE I, GRADE C, CLASS Q OVER NICKEL PLATE per QQ-N-290 (.0001 MIN. THICKNESS).
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 Thickess).
INSULATOR AND GLASS	N/A

dynawave INCORPORATED	SHEET 2 OF 2	DWG. NO. 9330-0431-6466	REV. —