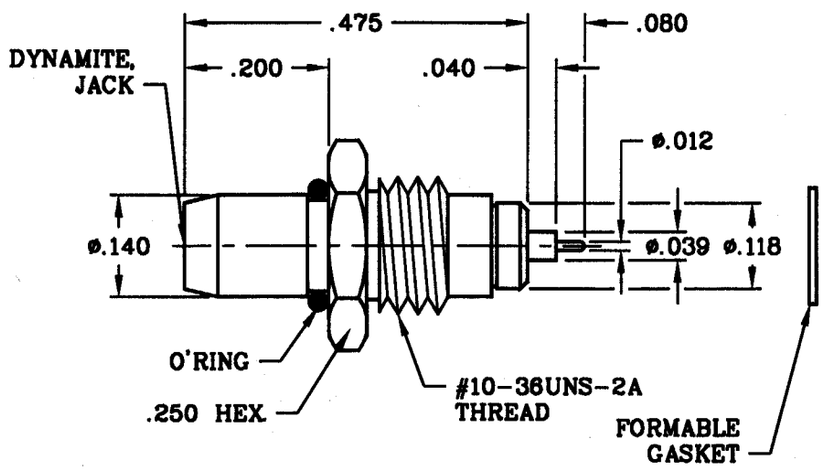
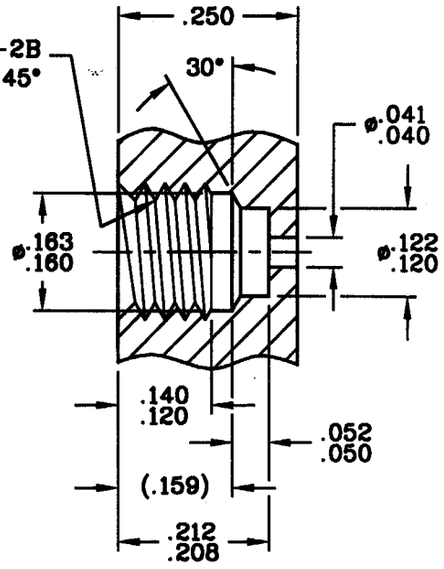
SPECIFICATION CONTROL DRAWING





MOUNTING PACKAGE DIMENSIONS

1. MATING — INTERFACE DIMENSIONS PER DYNAWAVE MD-26 (DYNAMITE, PLUG)

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 38.0 GHz.
VSWR (MAX.) *	1.10 + .012 X FGHz
INSERTION LOSS (dB MAX.)	
• DYNAMITE INTERFACE GAP (.000 to .010)	.040 dB x $\sqrt{FGHz}$
• DYNAMITE INTERFACE GAP (.011 to .020)	.060 dB x $\sqrt{FGHz}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	250
RF LEAKAGE (MIN. dB DOWN)	
• DYNAMITE INTERFACE BOTTOMED (.000 GAP)	100 dB - FGHz
• DYNAMITE INTERFACE GAP (.001 to .010)	90 dB - FGHz
• DYNAMITE INTERFACE GAP (.016 to .020)	75 dB - FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	-65°c TO + 135°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

* GATED TEST DATA

REV.	DCN NO.	DATE	APP.
AA	03-1632	5/12/03	BN

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

dynawave INCORPORATED
HAVERHILL, MA 01835

DRAWN G.E. DATE 05/12/03

APPROVED BN DATE 5/12/03

TITLE: DYNAMITE, PLUG HERMETICALLY SEALED SPARK PLUG

CODE IDENT. 2J899

SHEET 1 OF 2

DWG. NO. 2630-0431-6401

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION–CENTER CONTACT and GLASS PIN
- MIN. AXIAL FORCE (BOTH) — 4.5 LBS.
- MIN. RADIAL TORQUE (GLASS PIN) — N/A

DYNAMITE ENGAGEMENT FORCES
- INSERTION (MAX. OUNCES) — 48.0
- WITHDRAWAL (MIN. OUNCES) — 4.0

DYNAMITE DURABILITY (MIN. MATING) — 1,000

RECOMMENDED MATING FORCES
- MIC PACKAGE (TORQUE) — 18– 20 IN. LBS.
- MATING JACK CONNECTOR (INSERTION FORCE) — 3 LBS. MAXIMUM

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 x 10^{-8} cc/SEC.

5. MATERIAL

CONNECTOR BODY	STAINLESS STEEL PER AMS-5640, TYPE 303, COND. A
CENTER CONTACT	BRASS PER ASTM-B-16, HALF HARD
INSULATOR	TEFLON PER ASTMD-1457
GLASS	CORNING 7070
GLASS, MALE PIN	KOVAR: IRON NICKEL ALLOY PER MIL-I-23011
GASKET	SOFT COPPER, ALLOY 110 PER ASTM-B-152 OR ASTM-B-370 OR EQUIVALENT.
O'RING	SILICONE RUBBER PER ZZ-R-765, CLASS IIB GRADE 50 OR 60.

6. FINISH

CONNECTOR BODY	GOLD PER ATSM B 488, TYPE I, CODE C, CLASS 1.25 (.000050 Minimum Thickness) OVER NICKEL PER QQ-N-290, CLASS 1 (.000150 Minimum Thickness) OVER NICKEL (WOODS OR WATTS), (.000010 Minimum Thickness).
GLASS PIN	GOLD PER ATSM B 488, TYPE I, CODE C, CLASS 1.25 GOLD PER MIL-C-14550 (.000015 MIN. THK.)
CENTER CONTACT	GOLD PER ATSM B 488, TYPE I, CODE C, CLASS 1.25 (.000050 Minimum Thickness) OVER NICKEL PER QQ-N-290, CLASS 1 (.000150 Minimum Thickness).
GASKET	GOLD PER ATSM B 488, TYPE I, CODE C, CLASS 1.25 (.000050 Minimum Thickness) OVER NICKEL PER QQ-N-290, CLASS 1 (.000150 Minimum Thickness) OVER COPPER PER MIL-C-14550, (.000010 Minimum Thickness).
GASKET	N/A