

# X-Band Coaxial Pulsed Magnetron - 2,000 kW

## L6170-04

The L6170-04 is a high output power coaxial pulse magnetron that delivers 2,000 kW minimum peak output power at a duty cycle of up to 0.0002 and a pulse width of up to 4.0  $\mu$  Sec.



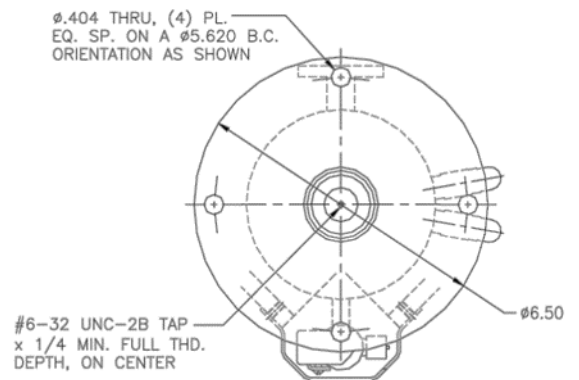
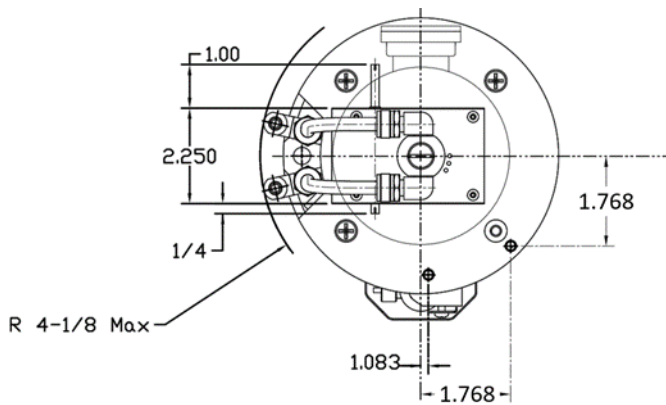
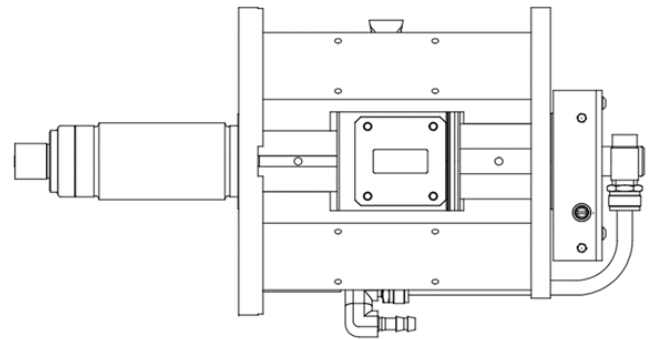
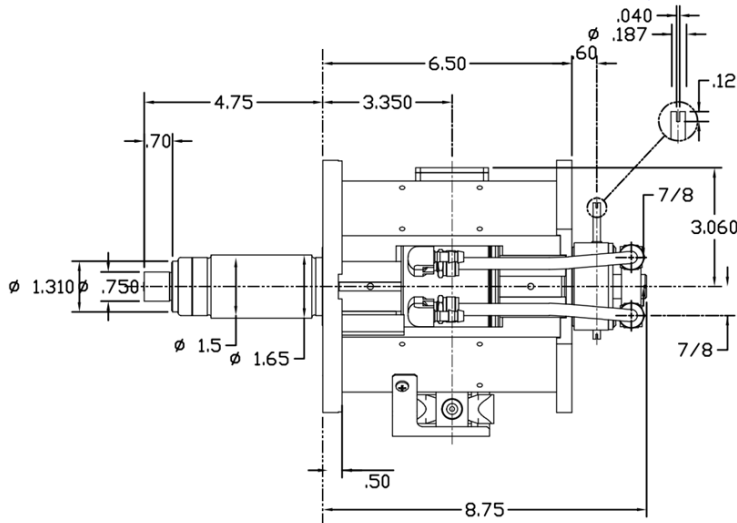
Performance Characteristics	
Frequency	9.275 – 9.325 GHz
Peak Pulse Power Output	2,000 kW min
Average Power Output	400 W
Peak Anode Voltage	34 to 38 kV
Peak Anode Current	93 A
Average Anode Current	19 mA
Pulse Width	4.0 $\mu$ Sec
Duty Cycle	00.0002
Filament Voltage (Standby)	10 V
Filament Current (Standby)	15 A
Filament Voltage (Oscillating)	2 V (back-down required)
Warm-up time	300 Sec.
Load VSWR	1.2:1 max
Environment	
Cooling	Laboratory environment water cooling to anode & tuner
Flow Rate (Operating)	1.0 gallon / min
Max Inlet temp (Operating)	+45 °C
Max Outlet temp (Operating)	+85 °C
Temperature Range (Ambient Air)	5 °C to 40 °C
Mechanical Description	
RF Launch Type	WR-112 mates with UG-51/U flange
Weight (nominal)	35 lb. (16 Kg)
Outline dimensions	See outline drawing (page 2)
Mounting position	Any orientation
Tuning	10 turns, nominal

### KEY FEATURES

- \* Linear accelerator applications
- \* 9.3 GHz, high frequency stability
- \* Tunable +/- 25 MHz to match accelerator
- \* 2,000 kW peak output power
- \* 0.0002 duty cycle
- \* Liquid cooled anode
- \* Integral permanent magnets

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L6170-04 Outline (inches)



Detailed outline drawings are available on request. Specifications and features are subject to change without notice.

**Stellant Systems** is a partner for civil, military, and commercial organizations whose missions seek to ensure a safe, aware, and connected world. We are a premier manufacturer of critical spectrum and power amplification systems for defense, space, medical & scientific and industrial customers worldwide.

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