

X-Band Coaxial Pulsed Magnetron — 1,700 kW

L6170-01

The L6170-01 is a high output power coaxial pulse magnetron that delivers 1,700 kW minimum peak output power at a duty cycle of up to 0.0008 and a pulse width of up to 4.0 μ Sec.

KEY FEATURES

- Linear accelerator applications
- 9.3 GHz, high frequency stability
- Tunable ± 25 MHz to match accelerator
- 1,700 kW peak output power
- 0.0008 duty cycle
- Liquid cooled anode
- Integral permanent magnets



SPECIFICATIONS

Performance	
Frequency	9300 GHz, ± 25 MHz
Peak Pulse Power Output	1,700 kW min
Average Power Output	1,360 W
Peak Anode Voltage	34 - 38 kV
Peak Anode Current	88 A
Average Anode Current	70 mA
Pulse Width	4.0 μ Sec
Duty Cycle	0.0008
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

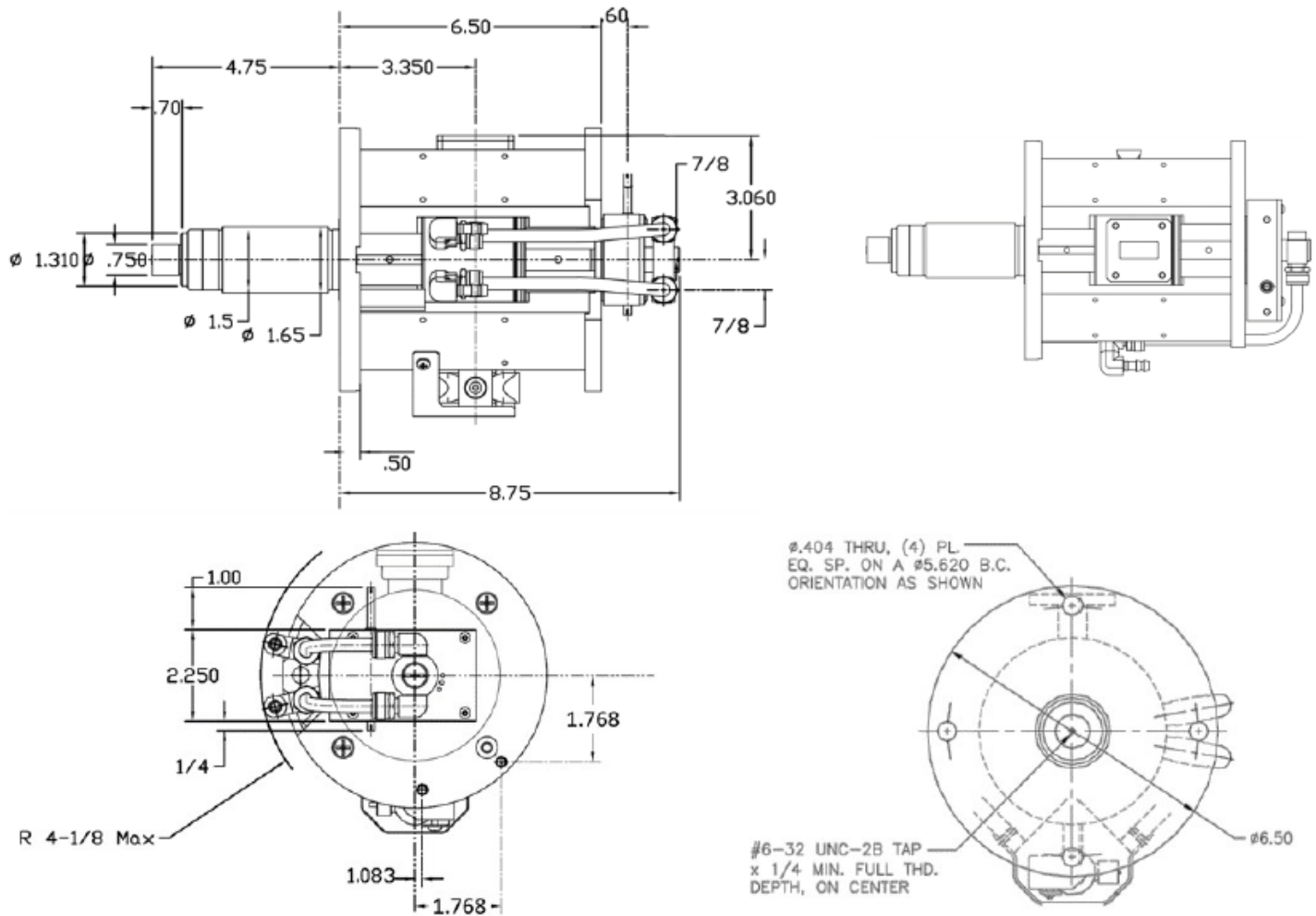
Environment	
Cooling	Laboratory environment water cooling to anode & turner
Flow Rate (Operating)	1.0 gallon/min
Max Inlet Temp (Operating)	+45°C
Temperature Range (Ambient Air)	5°C to 40°C

Mechanical Characteristics	
RF Launch Type	WR-112 mates with UG-51/U flange
Weight (nominal)	35 lb. (16 kg)
Outline Dimensions	See outline drawing (pg 2)
Mounting Position	Any orientation
Tuning	10 turns, nominal

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Outline Drawing (inches)



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

Headquarters

3100 Lomita Blvd
Torrance, CA 90505
T: 310-517-6000

Williamsport, PA

1035 Westminster Dr.
Williamsport, PA 17701
T: 570-326-3561



StellantSystems.com



Sales-PST@stellantsystems.com

info@stellantsystems.com