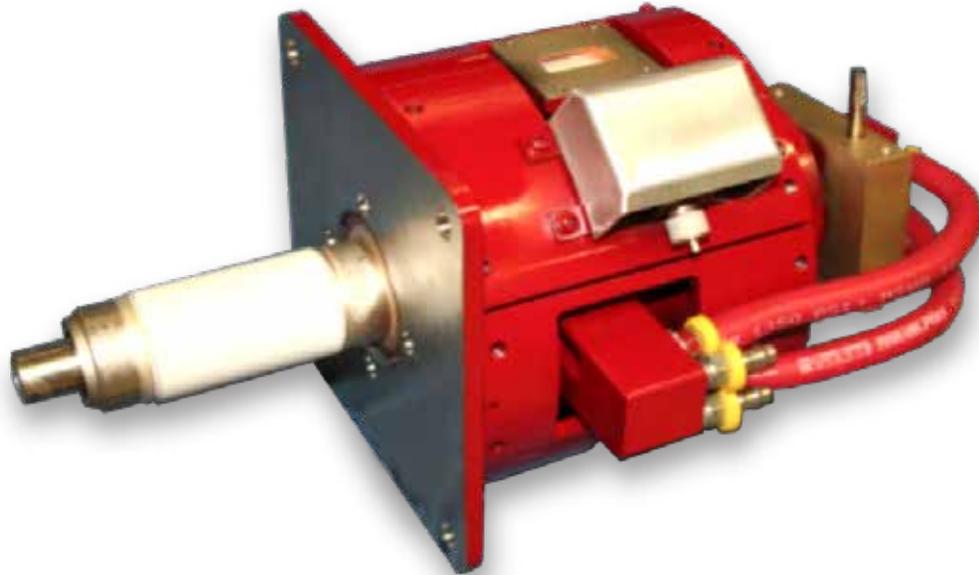


## Communications & Power Industries Coaxial Magnetron



A magnetron is a high power microwave oscillator in which the potential energy of an electron cloud near the cathode is converted into RF energy in a series of cavity resonators. The VMX3095 magnetron delivers high peak and average RF power for use in medical or industrial applications.

The VMX3095 will mount directly into new and existing sockets and can be operated under various pulse and input conditions to accommodate wide ranging operating requirements. In addition to high power, the VMX3095 provides excellent frequency stability, low jitter and long life.

### FEATURES:

- 9.3 GHz
- Tunable +/- 20 MHz
- 1.50 MW peak output power
- 1.50 kW average output power
- .001 duty cycle
- Liquid cooled anode

### BENEFITS:

- High power
- Long life

### APPLICATIONS:

- Medical linear accelerator
- Industrial linear accelerator

# CPI X-Band 1.5 MW Coaxial Pulsed Magnetron: VMX3095

## Electrical Specifications

Frequency	9.3 GHz $\pm$ 20 MHz
Peak Power Output	1.50 MW
Average Power Output	1.50 kW
Pulse Voltage	34 - 37 kV
Peak Anode Current	80 A
Average Anode Current	80 mA
Pulse Width	4.5 $\mu$ S, $\pm$ .05 $\mu$ S
Duty Cycle	0.001
Maximum Filament Voltage	10 V
Maximum Filament Current	15 A
Minimum Warm-Up Time	300 S
Maximum Load VSWR	1.1:1

## Mechanical and Environmental Specifications

Cooling	Liquid on body, forced air on cathode
Flow Rate (operating)	0.66 gal/min 16 cfm to cathode
Body Temperature	10°C to 60°C
Mounting Position	Any
Support	Mounting Flange
Coupling	WR112 mates with UG-51/U
Tuning	10 turns
Maximum Weight	40 lbs. (18.14 kg)

With a history of producing high quality products, we can help your with magnetron.

**Contact us at [BMDMarketing@cpii.com](mailto:BMDMarketing@cpii.com) or call us at +1 978-922-6000.**

