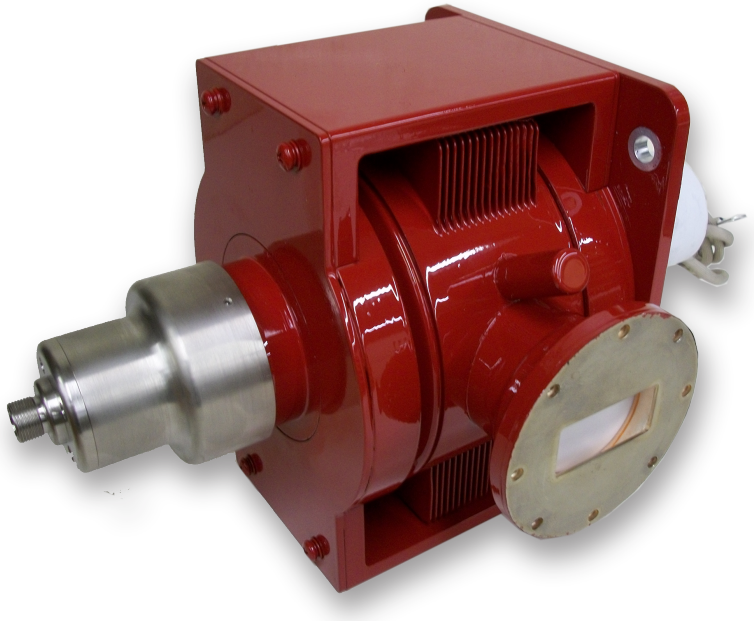
C-Band 2.5 MW Coaxial Magnetron VMC3109

CPI Electron Device Business - 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 VMC3109 magnetron delivers high peak and average RF power for use in medical or industrial applications.

The VMC3109 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 VMC3109 provides excellent frequency stability, low jitter and extremely long life.

FEATURES:

- 5.7 GHz
- Tunable +/- 10 MHz
- 2.50 MW peak output power
- 2.50 kW average output power
- Liquid cooled

BENFITS:

- High power
- Long life

APPLICATIONS:

- Industrial linear accelerator
- Medical linear accelerator

CPI EDB C-Band 2.5 MW Coaxial Pulsed Magnetron: VMC3109

Electrical Specifications

Frequency	5.712 GHz 10MHz
Peak Power Output	2.50 MW
Average Power Output	2.50 kW
Pulse Voltage	45-50 kV
Peak Anode Current	110 A
Average Anode Current	110 mA
Pulse Width	4.0 μS ± 0.5 μS
Duty Cycle	0.001
Maximum Filament Voltage	18 V
Maximum Filament Current	15 A
Minimum Warm -Up Time	300 S
Maximum Load VSWR	1.1:1

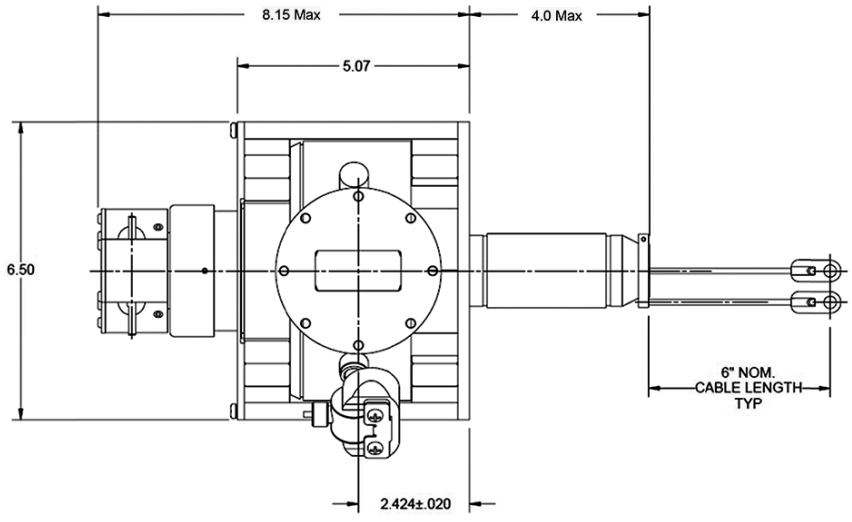
Mechanical and Environmental Specifications

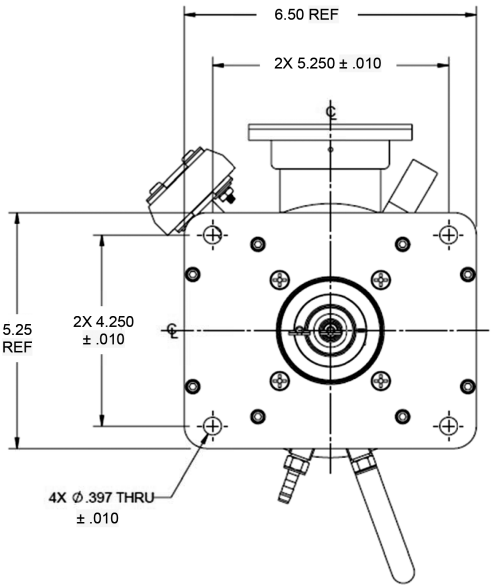
Cooling	Liquid on body, forced air on cathode*
Temperature Range (ambient air)	55°C
Mounting Position	Any
Support	Mounting Flange
Coupling	WR187 mates with UG-148B/U choke flange
Tuning	10 turns, ~4.5 MHz per turn
Weight	35 lbs. (15.88 kg)

*Electrical specifications are typical. Other operating conditions are obtainable.

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

Contact us at ElectronDevices@cpi-edb.com or call us at +1 978-922-6000.





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