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 VMX3045 magnetron delivers high peak and average RF power for use in medical or industrial applications.

The VMX3045 is a small and light weight magnetron that can be easily installed in numerous platforms. The small form factor is ideally suited for mobile applications or in systems where space is at a premium.

The VMX3045 will mount directly into new or existing sockets and can be operated under various pulse and input conditions to accommodate a wide range of operating requirements.

FEATURES:

- 9.3 GHz
- Tunable +/- 30 MHz
- 400 kW peak output power
- 400 W average output power
- Long life >2000 hours

BENEFITS:

- High power
- Small size
- Ideally suited for mobile use

APPLICATIONS:

Industrial linear accelerator



CPI X-Band 400 kW Coaxial Pulsed Magnetron: VMX3045

Electrical Specifications

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9.3 GHz ± 30MHz
400 kW
400 W
27 – 2.95 kV
28 A
28 mA
3.5 μS, ±0.25 μS
0.001
15 V
3.6 A
150 S
1.1:1

Mechanical and Environmental Specifications

Cooling	Forced air
Flow Rate	40 cfm
Body Temperature	-55°C to +140°C
Mounting Position	Any
Support	Mounting Flange
Coupling	WR112 mates with UG-51/U choke flange
Tuning	10 turns, ~3 MHz per turn
Weight	11 lbs. (4.99 kg)

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

Contact us at BMDMarketing@cpii.com or call us at +1 978-922-6000.



