C-Band 500 kW Coaxial Magnetron

CPI Electron Device Business Coaxial Magnetron



The VMC3015 is a coaxial magnetron delivering high peak and average RF power for use in various radar transmitters.

The VMC3015 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 VMC3015 provides excellent frequency stability, low jitter and long life.

FEATURES:

- Frequency 5.410 5.825 GHz
- Peak Power Output 500 kW
- Duty Cycle 0.001
- Air cooled
- Mechanically tunable

BENEFITS:

- >40,000 hours life
- Exceptional frequency stability

APPLICATIONS:

• Weather radars



CPI EDB C-Band 500 kW Coaxial Magnetron: VMC3015

Electrical Specifications		
Frequency	5.41 -5.825 GHz	
Peak power output	500 kW	
Average power output	500 kW	
Pulse voltage	26.7 – 27.7 kV	
Peak anode current	33.0 A	
Average anode current	33.0 mA	
Pulse width	3.5 μS	
Duty cycle	0.001	
Maximum filament voltage	10.5 V	
Maximum filament current	13 A	
Minimum warm-up time	300 S	
Maximum load VSWR	1.5:1	

 $2.437 \pm .125$

SEE DETAIL OF RECTANGULAR

WAVEGUIDE OUTPUT FLANGE

REF. PLANE "A"

2.270 ± .026

 10.00 ± 1.00 -

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REF PLANE

8.906

 $\frac{5}{8}$ - 24 NS

0

SEE DETAIL OF

TERMINAL LUG

9 2 7 0

5.180

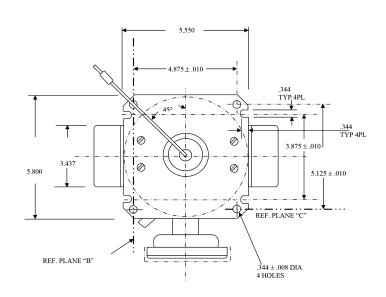
.450 MIN

Mechanical and Environmental Specifications

Cooling	Forced air
Maximum body temperature	120°C
Mounting position	Any
Support	Mounting flange
Coupling	WR 187 m ates with UG148B/U choke flange
Tuning	16 turns
Weight	36 lbs. (16.33 kg)

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

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





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