

Communications & Power Industries Coaxial Magnetron



The SFD373A is a coaxial magnetron that delivers high peak and average RF power for use in weather radar transmitters.

The SFD373A 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 SFD373A provides excellent frequency stability, low jitter and long life.

FEATURES:

- Frequency 5.6 – 5.65 GHz
- Peak power output 320 kW min.
- Duty cycle .001
- Air cooled
- Mechanically tunable

BENEFITS:

- >40,000 hours life
- Exceptional frequency stability

APPLICATIONS:

- Weather radars

CPI C-Band 320 kW Coaxial Magnetron: SFD373A

Electrical Specifications

Frequency	5.6 – 5.65 GHz
Peak power output (min.)	320 kW
Average power output (min.)	320 W
Pulse voltage	26.0 – 28.0 kV
Peak anode current	26 A
Average anode current	26 mA
Maximum pulse width	3.5 μ S
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

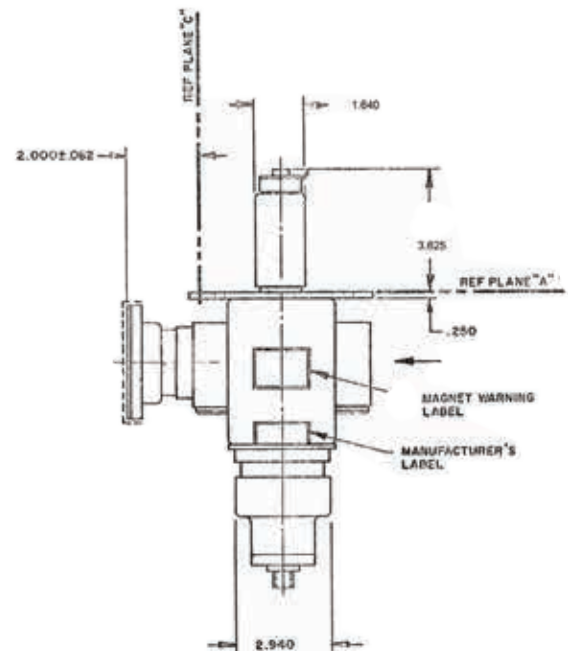
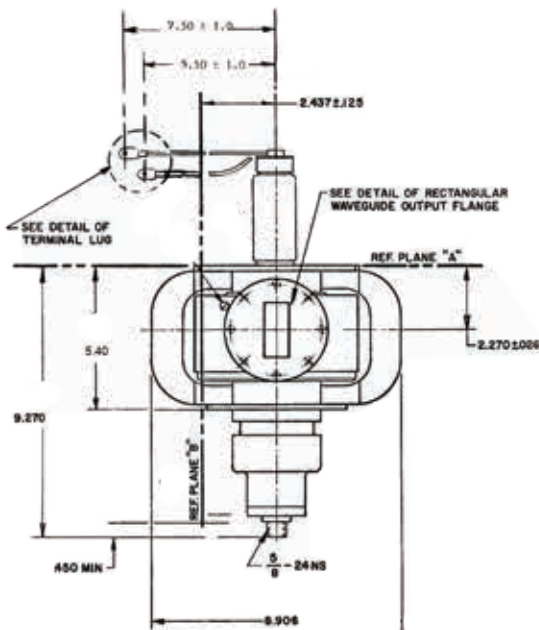
Mechanical and Environmental Specifications

Cooling	Forced air
Maximum body temperature	120°C
Mounting position	Any
Support	Mounting Flange
Coupling	WR187 mates with UG-148B/U choke flange modified for clearance holes
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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For more detailed information, please refer to the corresponding CPI technical description if one has been published, or contact CPI. Specifications may change without notice as a result of additional data or product refinement. Please contact CPI before using this information for system design.

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