

Communications & Power Industries CW Magnetron

A high output power 100 kW L-band CW magnetron that delivers 100 kW minimum continuous output power at typical 88% efficient operation

FEATURES:

- 896, 915, 922 & 929 MHz
- CW Power Output – 100 kW*
- 88% efficiency, typical
- Water-cooled anode
- Coaxial launch into WR-975
- External electromagnet

Specifications

Frequency of operation (fixed)	896, 915, 922, 929 MHz
Frequency variation	±10 MHz
Continuous CW power output power*	100 kW min
Anode Voltage	19.5 – 20.0 kV
Anode current	5.8 – 6.0 A
Efficiency	83 – 88%
Filament voltage	12.0 – 12.6 V
Filament current	112 – 115 A (see chart)
Load VSWR (circulator required)	1.1:1

*For operation of 100kW magnetrons at power levels below 50kW, contact Econco for operating instructions.

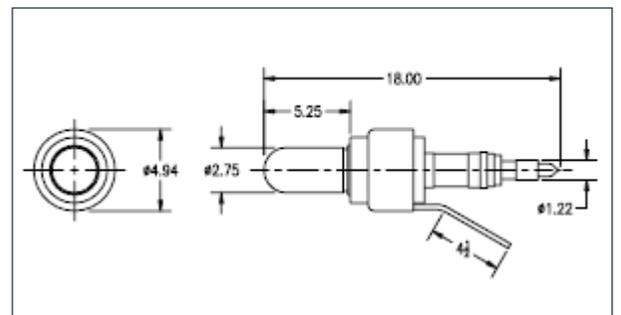
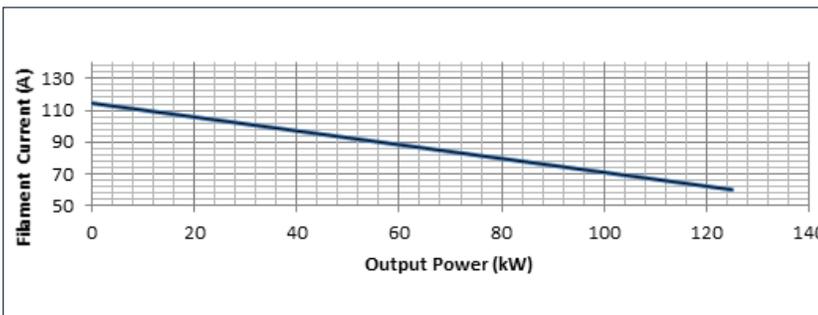


Cooling Requirements

Cooling (water flow, anode min.)	4 gpm
Cooling (air flow, cathode min.)	5 cfm
Cooling (air flow, dome min.)	40 cfm

Mechanical

RF Launch type	Coaxial, into WR-975
Weight (maximum)	15 lbs (6.81 Kg)
Overall dimensions:	
Length	18 inches (45.72 cm)
Diameter	4.94 inches (12.55 cm)



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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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