

100kW L-Band CW Magnetron

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

FEATURES

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



CHARACTERISTICS:

| | | |
|--|--------------------|----------|
| Frequency of Operation (fixed) | 896, 915, 922, 929 | MHz |
| Frequency Variation | ± 10 | MHz |
| Continuous CW Power Output* | 100 | kW (min) |
| Anode Voltage | 19.5 - 20 | kV |
| Anode Current | 5.8 - 6.0 | A |
| Efficiency | 83 - 88 | % |
| Filament Voltage (standby) | 12.0 - 12.6 | V |
| Filament Current (standby) (see chart) | 112 - 115 | A |
| Load VSWR (circulator required) | 1.1:1 | |

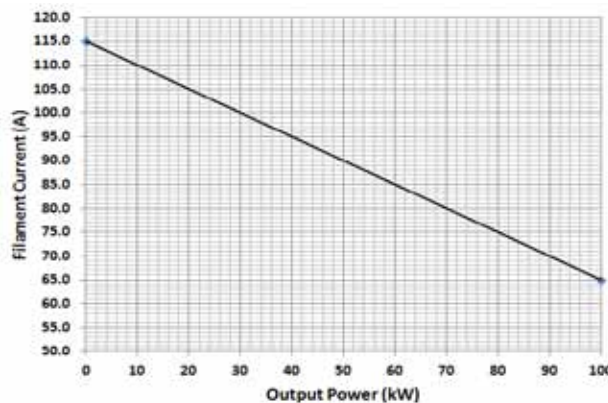
COOLING REQUIREMENTS:

| | | |
|----------------------------------|----|-----|
| 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 (max.) | 15 lbs (6.8 Kg) |
| Overall Dimensions: | |
| Length | 18.00 Inches |
| Diameter | 4.94 Inches |

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



The values listed above represent specified limits for the product and are subject to change. The data should be used for basic information only. Formal, controlled specifications may be obtained from CPI Econco for use in equipment design.