The CWM 30 kW is a fixed tuned magnetically focused, air and liquid-cooled, ceramic-metal magnetron designed for industrial processing applications. It can continuously generate 30 kW of useful power at 915 MHz with efficiencies approaching 85%.

SPECIFICATIONS

PERFORMANCE CHARACTERISTICS

- **Frequency Range**: 896, 915, 922, 929 MHz
- **Power Output**: 30 kW
- **Anode voltage**: 14 kV
- **Anode Current**: 2.7 A
- **Efficiency**: 85%
- **Filament Voltage**: 12.6
- **Filament Current**: 115 A
- **Max Load VSWR**: 1.5:1
- **Max Inlet Water Pressure**: 100 psi
- **Max Outlet Water Temp**: 70° C
- **Max Anode Dissipation**: 25 kW

TYPICAL OPERATING CONDITIONS

- **Frequency**: 915 MHz
- **CW Output Power**: 30 kW
- **Anode Voltage**: 13 to 14 kV
- **Anode Current**: 2.5 to 2.75 A
- **Efficiency**: 85%
- **Filament Voltage**: 12.6 VAC
- **Filament Current (standby)**: 115 A
- **Filament Current (operating)**: 99 A
- **Electromagnet Current**: 3.5 A
- **Load VSWR**: 1.2:1
- **Anode Water Flow**: 3 gpm
- **Anode Cooling Temp**: 15° C
- **Cathode Air Flow**: 5 cfm
- **Dome Air Flow**: 40 cfm

MECHANICAL DESCRIPTION

- **Mounting Position**: Any
- **Dimensions**: See outline drawing
- **Terminal Connection**: See outline drawing
- **Max Length**: 18.55 in
- **Max Diameter**: 4.94 in
- **Weight**: 15 lbs, 6.9 Kg

All voltages are with respect to cathode.
Specifications are subject to change without notice.
SEE OUTLINE
(measurements in inches)

Please contact L3 Electron Devices for additional information, specific product requests, and/or requirements.

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