

Communications & Power Industries Tetrode



The 4CPW1000KB/X-2062M is a water-cooled power tetrode intended for use as a pulse modulator or pulse regulator. The tube is rated for 175 kVdc holdoff in a protective atmosphere, with a 75 ampere pulse cathode current rating during conduction and a 1000 kilowatt anode dissipation rating (average during the pulse). Peak anode current capability in excess of 100 amperes for short pulse operation is practical.

FEATURES:

| | |
|--------------------------------|----------------------|
| Maximum plate dissipation: | 1,000,000 Watts |
| Maximum screen dissipation: | 3,500 Watts |
| Maximum grid dissipation: | 1,500 Watts |
| Frequency for max rating (CW): | --- MHz |
| Amplification factor: | 4.5 |
| Filament/cathode: | Thoriated Tungsten |
| Voltage: | 12.0 Volts |
| Current: | 660.0 Amps |
| Capacitance: Grounded cathode | |
| Input: | 770.0 pF |
| Output: | 45.0 pF |
| Feedthrough: | 4.0 pF |
| Capacitance: Grounded grid | |
| Input: | --- pF |
| Output: | --- pF |
| Feedthrough: | --- pF |
| Cooling: | Water and Forced Air |
| Base: | Special |
| Air Socket: | --- |
| Air Chimney: | --- |
| Boiler: | --- |
| Length: | 31.0 in; 78.74 cm |
| Diameter: | 17.0 in; 43.18 cm |
| Weight: | 175 lb; 80 kg |

BENEFITS:

- Worldwide brand name recognition
- Over 85 years technical expertise

APPLICATIONS:

- Science

| Class of Operation | Type of Service | MAXIMUM RATINGS | | TYPICAL OPERATION | | | | |
|--------------------|--|-----------------------|----------------------|-----------------------|------------------------|----------------------|---------------------|--------------------------|
| | | Plate Voltage (Volts) | Plate Current (Amps) | Plate Voltage (Volts) | Screen Voltage (Volts) | Plate Current (Amps) | Drive Power (Watts) | Output Power (kiloWatts) |
| --- | Switch tube (max regulation range 20 kV) | 175,000 | 75 | --- | --- | --- | --- | --- |
| --- | Pulse modulator | 175,000 | 75 | 150,000 | 1,000 | 45 | --- | 6,000.0 |

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

Contact us at MPPMarketing@cpii.com or call us at +1 650-846-2800. The data should be used for basic information only.

Formal, controlled specifications may be obtained from CPI for use in equipment design.



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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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