

## Communications & Power Industries Tetrode



The 4CPW1000KA/9009 is a water-cooled power tetrode intended for use as a pulse modulator or in pulse regulator service. The tube is rated for 150 kVdc holdoff in a protective atmosphere, with a 90 amperes pulse cathode current rating during conduction and a 1000 kilowatt anode dissipation rating (average during pulse). Peak anode current capability in excess of 150 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:	50.0 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; 79.0 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)	15,000	90	---	---	---	---	---
---	Pulse modulator	150,000	90	120,000	1,500	50	---	5.8

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

Contact us at [MPPMarketing@cpii.com](mailto: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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