

Communications & Power Industries Tetrode



The 4CPW100KA/Y-841 is a ceramic/metal, water-cooled tetrode intended for use as a pulse modulator or in regulator service. Its rugged mesh thoriated-tungsten filament provides ample emission for 100 amp peak current rating. The 4CPW100KA/Y-841 is rated at 110 kilovolts in a protective atmosphere or with oil immersion between the anode and screen grid terminal. The water-cooled anode is rated for a maximum dissipation of 100 kilowatts. Available accessories are a tube support plate, an air-system socket and containment hood for protective atmosphere.

FEATURES:

Maximum plate dissipation:	100,000 Watts
Maximum screen dissipation:	1,750 Watts
Maximum grid dissipation:	500 Watts
Frequency for max rating (CW):	--- MHz
Amplification factor:	4.5
Filament/cathode:	Thoriated Tungsten
Voltage:	15.5 Volts
Current:	215 Amps
Capacitance: Grounded cathode	
Input:	470 pF
Output:	40 pF
Feedthrough:	0.5 pF
Capacitance: Grounded grid	
Input:	--- pF
Output:	--- pF
Feedthrough:	--- pF
Cooling:	Water and Forced Air
Base:	Special Coaxial
Air Socket:	---
Air Chimney:	---
Boiler:	---
Length:	18.1 in; 45.9 cm
Diameter:	13.9 in; 35.3 cm
Weight:	50 lb; 22.7 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)
	Pulse modulator	110,000	100	90,000	50	1500	---	4.35

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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