

## Communications & Power Industries Tetrode



The 4CV100,000E is recommended for use as a Class C RF amplifier, a Class AB RF amplifier, a Class AB push-pull AF amplifier or modulator, as well as a high level modulated or pulse duration modulated amplifier. The tube is characterized by low input and feedback capacitances and low internal lead inductance. A rugged thoriated tungsten mesh filament provides ample emission over long operating life.

### FEATURES:

Maximum plate dissipation:	100,000 Watts
Maximum screen dissipation:	1,750 Watts
Maximum grid dissipation:	500 Watts
Frequency for max rating (CW):	108 MHz
Amplification factor:	4.5
Filament/cathode:	Thoriated Tungsten
Voltage:	15.5 Volts
Current:	215 Amps
Capacitance: Grounded cathode	
Input:	470.0 pF
Output:	61.0 pF
Feedthrough:	1.1 pF
Capacitance: Grounded grid	
Input:	200.0 pF
Output:	61.0 pF
Feedthrough:	0.4 pF
Cooling:	Vapor and Forced Air
Base:	Special
Air Socket:	SK-2011A
Air Chimney:	---
Boiler:	BR-710B
Length:	15.50 in; 39.37 cm
Diameter:	9.53 in; 24.21 cm
Weight:	35.0 lb; 15.9 kg

### BENEFITS:

- Worldwide brand name recognition
- Over 85 years technical expertise

### APPLICATIONS:

- Communications
- Industrial

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)
AB1	RF linear amplifier	17,500	16.0	17,500	1,500	13.5	---	168.0
C	RF amplifier	17,500	16.0	15,000	750	11.7	560	140.0
C	RF amplifier plate modulated	15,000	16.0	15,000	750	11.7	530	140.0
AB1	RF amplifier or modulator	17,500	16.0	15,000	1,500	19.5	---	200.0

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.



**Microwave Power  
Products Division**  
811 Hansen Way  
Palo Alto, California  
USA 94304

tel +1 650-846-2800  
fax +1 650-856-0705  
email [MPPMarketing@cpii.com](mailto:MPPMarketing@cpii.com)  
web [www.cpii.com/MPP](http://www.cpii.com/MPP)

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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