## **Communications & Power Industries Tetrode**





The 4CV50,000E is characterized by low input and feedback capacitances and low internal lead inductances. A rugged thoriated tungsten mesh filament provides adequate emission over long operating life. It is recommended for use as a Class C RF amplifier or oscillator, a Class AB RF linear amplifier, or a Class AB push-pull AF amplifier or modulator. The 4CV50,000E is also useful as a plate and screen modulated Class C RF amplifier.

## FEATURES:

Maximum plate dissipation: 50,000 Watts
Maximum screen dissipation: 1,500 Watts

Maximum grid dissipation: 400 Watts
Frequency for max rating (CW): 110 MHz

Amplification factor: 4.5

Filament/cathode: Thoriated Tungsten

Voltage: 12.0 Volts Current: 215 Amps

Capacitance: Grounded cathode

Input: 310.0 pF
Output: 52.0 pF
Feedthrough: 0.7 pF

Capacitance: Grounded grid

Input: --- pF
Output: --- pF
Feedthrough: --- pF

Cooling: Vapor and Forced Air

Base: Special Air Socket: SK-2011A

Air Chimney: ---

Boiler: BR-710A

Length: 11.50 in; 292.10 mm

Diameter: 9.53 in; 242.0 mm

Weight: 31.5 lb; 14.3 kg

## **BENEFITS:**

Worldwide brand name recognitionOver 85 years technical expertise

## **APPLICATIONS:**

- Communications
- Industrial



		MAXIMUM RATINGS		TYPICAL OPERATION				
Class of Operation	Type of Service	Plate Voltage (Volts)	Plate Current (Amps)	Plate Voltage (Volts)	Screen Voltage (Volts)	Plate Current (Amps)	Drive Power (Watts)	Output Power (kiloWatts)
С	RF amplifier	17,500	12.0	15,000	1,500	11.5	150	137.0
С	RF amplifier plate modulated	15,000	12.0	14,000	750	9.25	685	110.0
AB1	RF linear amplifier	17,500	12.0	10,000	1,800	9.14		57.0
AB1	AF amplifier or modulator (2 tubes)	17,500	12.0	15,000	1,250	18.6		195.0

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.