## 4CW50,000E

# **Communications & Power Industries Tetrode**





The 4CW50,000E is characterized by low input and feedback capacitances and low internal lead inductances. A rugged thoriated tungsten filament provides adequate emission over the long operating life. It is recommended for use as a Class C RF amplifier or oscillator, a Class AB RF linear amplifier, a Class AB push-pull AF amplifier or modulator. The 4CW50,000E is also useful as a plate and screen-modulated Class C RF amplifier.

### FEATURES:

Maximum plate dissipation: Maximum screen dissipation: Maximum grid dissipation: Frequency for max rating (CW): Amplification factor: Filament/cathode: Voltage: Current: Capacitance: Grounded cathode	50,000 Watts 1,500 Watts 400 Watts 110 MHz 4.5 Thoriated Tungsten 12.0 Volts 215 Amps				
' Input:	310.0 pF				
Output:	52.0 pF				
Feedthrough:	0.7 pF				
Capacitance: Grounded grid					
Input:	140.0 pF				
Output:	52.0 pF				
Feedthrough:	0.3 pF				
Cooling:	Water and Forced Air				
Base:	Special Coaxial				
Air Socket:	SK-2011A				
Air Chimney:					
Boiler:					
Length:	11.50 in; 292.0 mm				
Diameter:	9.53 in; 242.00 mm				
Weight:	35.0 lb; 15.9 kg				

#### BENEFITS:

- Worldwide brand name recognition
- Over 85 years technical expertise

### APPLICATIONS:

- Communications
- Industrial
- Science



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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	9.2	685	110.0
AB1	<b>RF linear amplifier</b>	17,500	12.0	10,000	1,800	9.1		57.0
AB1	AF linear amplifier	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.

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