

## Communications & Power Industries Tetrode



The 4CX5000A/8170 is useful as an oscillator, amplifier or modulator at frequencies up to 220 MHz, Class AB<sub>1</sub> audio amplifier, or as a screen-modulated radio frequency amplifier. The rated plate dissipation is 5 kW for most classes of service and 6 kW for Class AB operation.

### FEATURES:

Maximum plate dissipation:	6,000 Watts
Maximum screen dissipation:	250 Watts
Maximum grid dissipation:	75 Watts
Frequency for max rating (CW):	220 MHz
Amplification factor:	4.5
Filament/cathode:	Thoriated Tungsten
Voltage:	7.5 Volts
Current:	75 Amps
Capacitance: Grounded cathode	
Input:	120.0 pF
Output:	20.5 pF
Feedthrough:	0.7 pF
Capacitance: Grounded grid	
Input:	56.0 pF
Output:	21.5 pF
Feedthrough:	0.1 pF
Cooling:	Forced Air
Base:	Special Coaxial
Air Socket:	SK-300A / SK-360
Air Chimney:	SK-306 / SK-356
Boiler:	---
Length:	9.13 in; 232 mm
Diameter:	4.94 in; 125.00 mm
Weight:	9.5 lb; 4.31 kg

### BENEFITS:

- Worldwide brand name recognition
- Over 85 years technical expertise

### APPLICATIONS:

- Communications
- Industrial
- Medical

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)
C	RF amplifier	7,500	3.0	6,500	750	2.3	100	10.0
C	RF amplifier plate modulated	5,500	2.5	5,000	500	1.4	25	5.8
C	RF amplifier screen modulated	7,500	3.0	7,500	350	1.1	11	3.55
AB1	RF linear amplifier	7,500	4.0	7,500	1,250	1.9	---	10.0
AB1	AF amplifier or modulator	7,500	4.0	7,000	1,250	3.7	---	17.5

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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