

Communications & Power Industries Tetrode



The 4CX5000R/8170W incorporates rugged internal construction features including a sturdy mesh filament which allows it to meet demanding vibration and shock specifications. The 4CX5000R/8170W is useful up to 110 MHz and is recommended for use as a radio frequency linear amplifier, a Class AB audio amplifier, or a Class C power amplifier or plate-modulated amplifier.

FEATURES:

Maximum plate dissipation:	5,000 Watts
Maximum screen dissipation:	250 Watts
Maximum grid dissipation:	75 Watts
Frequency for max rating (CW):	100 MHz
Amplification factor:	4.5
Filament/cathode:	Thoriated Tungsten
Voltage:	7.5 Volts
Current:	75 Amps
Capacitance: Grounded cathode	
Input:	115.0 pF
Output:	20.5 pF
Feedthrough:	0.7 pF
Capacitance: Grounded grid	
Input:	53.0 pF
Output:	21.5 pF
Feedthrough:	0.1 pF
Cooling:	Forced Air
Base:	Special Coaxial
Air Socket:	SK-300A
Air Chimney:	SK-306
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

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	5,000	2.5	5,000	500	1.4	---	5.8
AB1	RF linear amplifier	7,500	4.0	7,500	1,250	1.9	---	10.0
AB1	AF amplifier or modulator (2 tubes)	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 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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