

## Communications &amp; Power Industries Tetrode



The 4CX20,000B is intended for use as a Class C RF power amplifier in AM broadcast service, for use as a push-pull audio amplifier or modulator, or as a pulse modulator. The anode is rated for 20 kW dissipation and incorporates a highly efficient cooler of new design, which significantly reduces air pressure and flow requirements and produces low acoustical noise.

## FEATURES:

Maximum plate dissipation:	20,000 W
Maximum screen dissipation:	450 W
Maximum grid dissipation:	200 W
Frequency for max rating (CW):	30 MHz
Amplification factor:	6.7
Filament/cathode:	Thoriated tungsten
Voltage:	10.0 V
Current:	140 A
Capacitance:	Grounded cathode
Input:	190 pf
Output:	23.5 pf
Feedthrough:	1.5 pf
Capacitance:	Grounded grid
Input:	8. pf
Output:	24.5 pf
Feedthrough:	0.2 pf
Cooling:	Forced air
Base:	Special, coaxial
Air socket:	SK-320
Air chimney:	SK-326
Boiler:	---
Length:	9.84 in/249.90 mm
Diameter:	8.86 in/225.04 mm
Weight:	20.0 lb/9.06 kg

## BENEFITS:

- Worldwide brand name recognition
- Over 85 years technical expertise

## APPLICATIONS:

- Communications

# CPI 20 kW VHF Radial Beam Power Tetrode: 4CX20000B

		Maximum Ratings		Typical Operation				
Class of Operation	Type of Service	Plate Voltage (V)	Plate Current (A)	Plate Voltage (V)	Screen Voltage (V)	Plate Current (A)	Drive Power (W)	Output Power (kW)
C	RF power amplifier	12,000	5.0	9,000	900	4.01	26	28.2
C	RF power amplifier plate modulated	10,000	5.0	7,800	750	4.60	35	29.0
AB1	AF amplifier or modulator (2 tubes)	12,500	6.0	7,800	1,500	9.2	---	44.0
---	Pulse modulator or regulator	35,000	6.0	---	---	---	---	---

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.



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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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