

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.



CHARACTERISTICS

Plate Dissipation (Max.)	20,000 Watts
Screen Dissipation (Max.)	450 Watts
Grid Dissipation (Max.)	200 Watts
Frequency for Max. rating (CW)	30 MHz
Amplification Factor	6.7
Filament/Cathode	Thoriated Tungsten
Voltage	10.0 Volts
Current	140 Amps
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

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 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	60	---	---	---	---	---

The values listed above represent specified limits for the product and are subject to change. The data should be used for basic information only. Formal, controlled specifications may be obtained from CPI for use in equipment design.



For information on this and other CPI products, visit our website at: www.cpii.com, or contact: CPI MPP Division, Eimac Operation, 607 Hansen Way, Palo Alto, CA 94303
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