

The 4CX5000A/8170 is useful as an oscillator, amplifier or modulator at frequencies up to 220 MHz, Class AB1 audio amplifier, or as a screen-modulated radio frequency amplifier. The rated plate dissipation is 5 kW for most classes of services and 6 kW for Class AB operation.



CHARACTERISTICS

Plate Dissipation (Max.)	6,000 Watts
Screen Dissipation (Max.)	250 Watts
Grid Dissipation (Max.)	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; 231.8 mm
Diameter	4.94 in; 125.4 mm
Weight	9.5 lb; 4.3 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 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

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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