

The 4CX10,000D/8171 is identical to the 4CX5000A/8170 except for its rated plate dissipation. Its increased capability, resulting in a larger cooler, is most useful in linear applications where plate dissipation is generally the limiting factor. The larger cooler also allows the 4CX10,000D/8171 to be used in place of the 4CX5000A/8170 with cooler operation at any given air flow rate.



## CHARACTERISTICS

Plate Dissipation (Max.)	10,000 Watts
Screen Dissipation (Max.)	250 Watts
Grid Dissipation (Max.)	75 Watts
Frequency for Max. rating (CW)	110 MHz
Amplification Factor	4.5
Filament/Cathode	Thoriated Tungsten
Voltage	7.5 Volts
Current	75.0 Amps
Capacitance	Grounded Cathode
Input	115.0 pf
Output	20.5 pf
Feedthrough	0.7 pf
Capacitance	Grounded Grid
Input	53.0 pf
Output	20.5 pf
Feedthrough	0.1 pf
Cooling	Forced Air
Base	Special, Coaxial
Air Socket	SK-300A
Air Chimney	SK-1306
Boiler	---
Length	9.13 in; 232.00 mm
Diameter	7.05 in; 179.00 mm
Weight	12.0 lb; 5.50 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	7,500	3.0	7,500	500	2.8	150	16.0
C	RF power amplifier plate modulated	5,000	2.3	5,000	500	1.4	25	5.8
AB1	RF linear amplifier	7,500	4.0	7,500	1,500	3.3	---	15.95
AB1	AF amplifier or modulator (2 tubes)	7,500	4.0	7,500	1,500	6.7	---	31.9

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](http://www.cpii.com), or contact: CPI MPP Division, Eimac Operation, 607 Hansen Way, Palo Alto, CA 94303  
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