

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.



## CHARACTERISTICS

Plate Dissipation (Max.)	5,000 Watts
Screen Dissipation (Max.)	250 Watts
Grid Dissipation (Max.)	75 Watts
Frequency for Max. rating (CW)	100 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	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

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

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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