

4CW100,000D

The 4CW100,000D is recommended for use as a Class C RF amplifier or oscillator, a Class AB RF linear amplifier, or a Class AB push-pull AF amplifier or modulator. The 4CW100,000D is also useful as a plate and screen modulated Class RF amplifier, and in pulse modulator-regulator service.



CHARACTERISTICS

Plate Dissipation (Max.)	100,000 Watts
Screen Dissipation (Max.)	1,750 Watts
Grid Dissipation (Max.)	500 Watts
Frequency for Max. rating (CW)	30 MHz
Amplification Factor	4.5
Filament/Cathode	Thoriated Tungsten
Voltage	10.0 Volts
Current	295 Amps
Capacitance	Grounded Cathode
Input	440 pf
Output	55.0 pf
Feedthrough	2.3 pf
Capacitance	Grounded Grid
Input	175 pf
Output	57.0 pf
Feedthrough	0.4 pf
Cooling	Water and Forced Air
Base	Special Graduated Rings
Air Socket	SK-1500
Air Chimney	N/A
Boiler	N/A
Length	18.00 in; 457.00 mm
Diameter	8.00 in; 203.00 mm
Weight	60.0 lb; 27.2 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	20,000	15.0	19,000	750	10.0	1,165	165.0
C	RF Amplifier Plate Modulated	17,500	15.0	16,000	750	10.0	870	138.0
AB1	RF Linear Amplifier	20,000	15.0	18,000	1,500	10.0	---	123.0
AB1	AF Amplifier or Modulator (2 tubes)	20,000	15.0	18,000	1,500	20.0	---	246.0
---	Switch Tube or Pulse Modulator	40,000	200	38,000	1,500	112	1,680	3,600.0

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 MPP products, visit our website at: www.cpii.com, or contact: CPI Microwave Products Division, Eimac Operation, 607 Hansen Way, Palo Alto, CA 94303
TELEPHONE: 1(800) 414-8823. **FAX:** (650) 592-9988 | **EMAIL:** powergrid@cpii.com