



The 4CW100,000E is ideal 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 as well as a plate and screen-modulated Class C RF amplifier. In a pulse modulator service, it can deliver a peak output of 4 megawatts. The tube is characterized by low input and feedback capacitances and low internal lead inductances.



4CW100,000E

CHARACTERISTICS

Plate Dissipation (Max.) Screen Dissipation (Max.) Grid Dissipation (Max.) Frequency for Max. rating (CW) **Amplification Factor** Filament/Cathode Voltage Current Capacitance Input Output Feedthrough Capacitance Input Output Feedthrough Cooling Base Air Socket Air Chimney Boiler Length Diameter Weight

100.000 Watts 1.750 Watts 500 Watts 108 MHz ---**Thoriated Tungsten** 15.5 Volts 215 Amps Grounded Cathode 370 pf 60.0 pf 1.0 pf Grounded Grid 175 pf 60.0 pf 0.35 pf Water and Forced Air **Special Coaxial** SK-2011A ---12.82 in; 325.60 mm 9.53 in; 242.10 mm 38.5 lb; 17.5 kg

		MAXIMU	M RATINGS	TYPICAL OPERATION				
Class of Operation	Type of Service	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	16.0	20,000	1,500	15.2	120	220.0
C	RF amplifier plate modulated	17,500	16.0	15,000	750	11.7	530	140.0
AB1	RF linear amplifier	20,000	16.0	18,000	1,500	13.5		168.0
AB1	AF amplifier or modulator (2 tubes)	20,000	16.0	15,000	1,500	19.5		200.0

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