

4CW100,000E

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.



CHARACTERISTICS

Plate Dissipation (Max.)	100,000 Watts
Screen Dissipation (Max.)	1,750 Watts
Grid Dissipation (Max.)	500 Watts
Frequency for Max. rating (CW)	108 MHz
Amplification Factor	---
Filament/Cathode	Thoriated Tungsten
Voltage	15.5 Volts
Current	215 Amps
Capacitance	Grounded Cathode
Input	370 pf
Output	60.0 pf
Feedthrough	1.0 pf
Capacitance	Grounded Grid
Input	175 pf
Output	60.0 pf
Feedthrough	0.35 pf
Cooling	Water and Forced Air
Base	Special Coaxial
Air Socket	SK-2011A
Air Chimney	---
Boiler	---
Length	12.82 in; 325.60 mm
Diameter	9.53 in; 242.10 mm
Weight	38.5 lb; 17.5 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	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
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