

The 4CV100,000E is recommended for use as a Class C RF amplifier, a class AB RF amplifier, a Class AB push-pull audio amplifier or modulator, as well as a high level modulated or pulse duration modulated amplifier. The tube is characterized by low input and feedback capacitances and low internal lead inductance. A rugged thoriated tungsten mesh filament provides ample emission over long operating life.



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	4.5
Filament/Cathode	Thoriated Tungsten
Voltage	15.5 Volts
Current	215 Amps
Capacitance	Grounded Cathode
Input	470.0 pf
Output	61.0 pf
Feedthrough	1.1 pf
Capacitance	Grounded Grid
Input	200 pf
Output	61.0 pf
Feedthrough	0.4 pf
Cooling	Vapor and Forced Air
Base	Special
Air Socket	SK-2011A
Air Chimney	---
Boiler	BR-710B
Length	15.50 in; 39.37 cm
Diameter	9.53 in; 24.21 cm
Weight	35.0 lb; 15.9 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)
AB1	RF linear amplifier	17,500	16.0	17,500	1,500	13.5	---	168.0
C	RF amplifier	17,500	16.0	15,000	750	11.7	560	140.0
C	RF amplifier plate modulated	15,000	16.0	15,000	750	11.7	530	140.0
AB1	RF amplifier or modulator	17,500	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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