

The 4CPW300,000A/9008 is a water-cooled power tetrode intended for use as a pulse modulator or in pulse regulator service. The tube is rated for 100 kVdc holdoff in a protective atmosphere, with a 90 amperes pulse cathode rating during conduction and a 300 kW anode dissipation rating (average age during the pulse). Peak anode current capability in excess of 150 amperes for short pulse operation is practical.



CHARACTERISTICS

Plate Dissipation (Max.)	300,000 Watts
Screen Dissipation (Max.)	3,500 Watts
Grid Dissipation (Max.)	1,500 Watts
Frequency for Max. rating (CW)	--- MHz
Amplification Factor	4.5
Filament/Cathode	Thoriated Tungsten
Voltage	12.0 Volts
Current	660 Amps
Capacitance	Grounded Cathode
Input	770 pf
Output	122 pf
Feedthrough	4.0 pf
Capacitance	---
Input	--- pf
Output	--- pf
Feedthrough	--- pf
Cooling	Water and Forced Air
Base	Special
Air Socket	---
Air Chimney	---
Boiler	---
Length	28.8 in; 73.15 cm
Diameter	12.0 in; 30.48 cm
Weight	98 lb; 44.5 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)
---	Switch tube (maximum regulation range 20 Kv)	100,000	90	---	---	---	---	---
---	Pulse modulator	100,000	90	83,000	1,000	80	---	6.4

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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