

The 4CPW1000KB is a water cooled power tet-rode intended for use as a pulse modulator or pulse regulator. The tube is rated for 175 kVdc holdoff in a protective atmosphere, with a 75 am-pere pulse cathode current rating during conduc-tion and 1000 kilowatt anode dissipation rating (average during the pulse). Peak anode current capability in excess of 100 amperes for short pulse operation is practical.



CHARACTERISTICS

Plate Dissipation (Max.)	1,000,000 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 Mesh
Voltage	12 Volts
Current	660 Amps
Capacitance	Grounded Cathode
Input	770 pf
Output	45 pf
Feedthrough	4 pf
Capacitance	---
Input	--- pf
Output	--- pf
Feedthrough	--- pf
Cooling	Water and Forced Air
Base	Special
Air Socket	---
Air Chimney	---
Boiler	---
Length	31 in; 78.74 cm
Diameter	17 in; 43.18 cm
Weight	175 lb; 80 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 (max regulation range 20 kV)	175,000	75	---	---	---	---	---
---	Pulse modulator	175,000	75	150,000	1,000	45	---	6,000.0

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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