

# 4CPL1000B

The 4CPL1000B tube is designed for switch tube, pulse modulator, or voltage regulator service. It will pass anode current up to 8 amperes for pulses up to 100 microseconds duration, and derated values of anode current at longer pulse durations. This tube is designed for immersion in cooling a liquid dielectric and can dissipate 1,000 watts. In air with proper cooling, plate dissipation is 300 watts. The 4CPL1000B has a special support for environmental stress absorption. This tube is rated to operate at an anode potential up to 15 kVdc when immersed in the recommended coolant. When immersed, the rating is not altitude dependent.



## CHARACTERISTICS

Plate Dissipation (Max.)	1,000 Watts
Screen Dissipation (Max.)	15 Watts
Grid Dissipation (Max.)	2 Watts
Frequency for Max. rating (CW)	--- MHz
Amplification Factor	
Filament/Cathode	Oxide Coated
Voltage	6.3 Volts
Current	4.9 Amps
Capacitance	
Input	pf
Output	pf
Feedthrough	pf
Capacitance	
Input	pf
Output	pf
Feedthrough	pf
Cooling	Liquid or Forced Air
Base	Special with Solder Terms
Air Socket	---
Air Chimney	---
Boiler	---
Length	2.71 in; 68.83 mm
Diameter	3.00 in; 76.20
Weight	---

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)
	Pulse modulator or switch tube	15,000	8.0	7,000	700			

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.



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**TELEPHONE:** 1(800) 414-8823. **FAX:** (650) 592-9988 | **EMAIL:** [powergrid@cpii.com](mailto:powergrid@cpii.com)