

4CPW100KA/Y-841

The 4CPW100KA/Y-841 is a ceramic/metal, water cooled, high power tetrode intended for use as a pulse modulator or in regulator service. Its rugged mesh thoriated-tungsten filament provides ample emission for 100 amp peak current rating. The 4CPW100KA/Y-841 is rated at 110 kilovolts in a protective atmosphere or with oil immersion between the anode and screen grid terminal. The water-cooled anode is rated for a maximum dissipation of 100 kilowatts. Available accessories are a tube support plate, an air system socket, and containment hood for protective atmosphere.



CHARACTERISTICS

Plate Dissipation (Max.)	100,000 Watts
Screen Dissipation (Max.)	1,750 Watts
Grid Dissipation (Max.)	500 Watts
Frequency for Max. rating (CW)	--- MHz
Amplification Factor	4.5
Filament/Cathode	Thoriated Tungsten
Voltage	15.5 Volts
Current	215 Amps
Capacitance	Grounded Cathode
Input	470 pf
Output	40 pf
Feedthrough	0.5 pf
Capacitance	---
Input	--- pf
Output	--- pf
Feedthrough	--- pf
Cooling	Water and Forced Air
Base	Special Coaxial
Air Socket	---
Air Chimney	---
Boiler	---
Length	18.1 in; 45.9 cm
Diameter	13.9 in; 35.3 cm
Weight	50 lb; 22.7 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)
	Pulse modulator	110,000	100	90,000	50	1500	---	4.35

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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