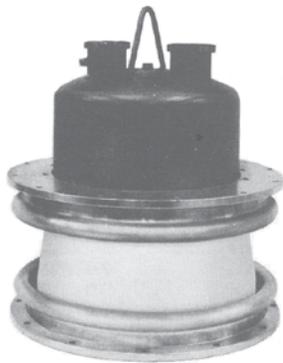


The 4CM2500KG/X-2274 is a ceramic/metal, water vapor cooled power tetrode designed for very high powered RF service. The 4CM2500KG has a high density thoriated tungsten mesh filament mounted on water-cooled supports. Pyrolytic graphite control and screen grids are used to provide the necessary stability and power dissipation rating. The maximum anode dissipation rating is 2500 kilowatts steady state. Large diameter coaxial terminals are used for the control grid and the RF cathode terminals. Filament power and filament support cooling water connections are made through two special connectors. Anode cooling water connectors are made with available hand tightened connectors.



CHARACTERISTICS

Plate Dissipation (Max.)	2,800,000 Watts
Screen Dissipation (Max.)	20,000 Watts
Grid Dissipation (Max.)	8,000 Watts
Frequency for Max. rating (CW)	80 MHz
Max useful frequency (derated power)	210 MHz
Amplification Factor (grid to screen)	6
Gain	13.5
Efficiency	67.4%
Filament/Cathode	Thoriated Tungsten
Voltage	15.5 Volts
Current	675 Amps
Capacitance	Grounded Cathode
Input	1150 pf
Output	150 pf
Feedthrough	5.0 pf
Capacitance	---
Input	--- pf
Output	--- pf
Feedthrough	--- pf
Cooling	Vapor and Forced Air
Base	Special Coaxial
Air Socket	---
Air Chimney	---
Boiler	---
Length	18.75 in; 476.20 mm
Diameter	17.03 in; 432.60 mm
Weight	153.0 in 69.5 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)
AB	RF power amplifier (grounded grid)	27,000	200	24,000	2,000	173	124.0	2,800.00

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