



The 4CM500,000G is a ceramic/metal, multiphase cooled (water/vapor) power tetrode designed to be useed as an exact replacement for the Thomson TH-558. This tube has a thoriated tungsten mesh filament and pyrolytic graphite grids which provide high dissipation combined with low secondary emission characteristics. Base coaxial contact rings are provided for the filament, grid, and screen terminals. These are forced air cooled. Maximum anode dissipation is 500 kW steady state with multiphase cooling.



4CM500,000G

CHARACTERISTICS

Plate Dissipation (Max.) Screen Dissipation (Max.) Grid Dissipation (Max.) Frequency for Max. rating (CW) **Amplification Factor** Filament/Cathode Voltage Current Capacitance Input Output Feedthrough Capacitance Input Output Feedthrough Cooling Base Air Socket Air Chimney Boiler Length Diameter Weight

500.000 Watts 8.000 Watts 3,000 Watts 50 MHz 4.4 **Thoriated Tungsten** 23.0 Volts 500 Amps **Grounded Cathode** 1,195 pf 107.0 pf 6.3 pf N/A N/A N/A N/A Water and Forced Air **Special Coaxial** N/A N/A N/A 25.7 in; 65.3 cm 12.6 in; 32.1 cm 150 lb; 70 kg

		MAXIMUM RATINGS		TYPICAL OPERATION				
Class of Operation	Type of Service	Plate Voltage (Volts)	Plate Current (Amps)	Plate Voltage (Volts)	Screen Voltage (Volts)	Plate Current (Amps)	Drive Power (Watts)	Output Power (kiloWatts)
C AB	RF Power Amplifier, Plate Modulated AF Amplifier, Plated Modulated (2 tubes)	15,000 15,000	75.0 75.0	12,500 12,000	1,000 1,250	54 78	3,000 	550 660

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 MPP products, visit our website at: **www.cpii.com**, or contact: CPI Microwave Products Division, Eimac Operation,607 Hansen Way, Palo Alto, CA 94303 **TELEPHONE:** 1(800) 414-8823. **FAX:** (650) 592-9988 | **EMAIL:** powergrid@cpii.com