

The 4CM500,000G is a ceramic/metal, multiphase cooled (water/vapor) power tetrode designed to be used 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.



CHARACTERISTICS

Plate Dissipation (Max.)	500,000 Watts
Screen Dissipation (Max.)	8,000 Watts
Grid Dissipation (Max.)	3,000 Watts
Frequency for Max. rating (CW)	50 MHz
Amplification Factor	4.4
Filament/Cathode	Thoriated Tungsten
Voltage	23.0 Volts
Current	500 Amps
Capacitance	Grounded Cathode
Input	1,195 pf
Output	107.0 pf
Feedthrough	6.3 pf
Capacitance	N/A
Input	N/A
Output	N/A
Feedthrough	N/A
Cooling	Water and Forced Air
Base	Special Coaxial
Air Socket	N/A
Air Chimney	N/A
Boiler	N/A
Length	25.7 in; 65.3 cm
Diameter	12.6 in; 32.1 cm
Weight	150 lb; 70 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)
C AB	RF Power Amplifier, Plate Modulated	15,000	75.0	12,500	1,000	54	3,000	550
	AF Amplifier, Plated Modulated (2 tubes)	15,000	75.0	12,000	1,250	78	---	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
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