

The 3CW5000F3/8243 is a water cooled, ceramic/metal, medium-mu power triode designed primarily for use in industrial radio frequency heating services. Its water cooled anode is conservatively rated at 5 kW of plate dissipation with low water flow and pressure drop. Input of 12.5 kW is permissible up to 30 MHz. Plentiful reserve emission is available from its 375 watt filament. The grid structure is rated at 150 watts, making this tube an excellent choice for industrial service.



CHARACTERISTICS

Plate Dissipation (Max.)	5,000 Watts
Screen Dissipation (Max.)	N/A
Grid Dissipation (Max.)	150 Watts
Frequency for Max. rating (CW)	75MHz
Amplification Factor	22
Filament/Cathode	Thoriated Tungsten
Voltage	7.5 Volts
Current	51.5 Amps
Capacitance	Grounded Cathode
Input	35.0 pf
Output	0.9 pf
Feedthrough	20 pf
Capacitance	N/A
Input	N/A
Output	N/A
Feedthrough	N/A
Cooling	Water and Forced Air
Base	Flexible Filament Leads
Air Socket	N/A
Air Chimney	N/A
Boiler	N/A
Length	22.06 in; 560.30 mm
Diameter	3.63 in; 92.10 mm
Weight	6.0 lb; 2.7 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)
C	Grid Driven RF Amplifier	6,000	2.5	6,000	---	2.1	136	10.0
C	Grid Driven RF Amplifier Plate Modulated	5,000	2.0	5,000	---	1.5	76	5.58
AB2	Grid Driven AF Amplifier or Modulator	6,000	2.5	6,000	---	3.0	113	13.0
AB2	Grid Driven AF Amplifier or Modulator	6,000	2.5	5,000	---	2.3	59	8.0

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