

Communications & Power Industries Triode



The 3CW5000F3/8243 is a water-cooled ceramic/metal, medium-mu triode designed primarily for use in industrial RF 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.

FEATURES:

Maximum plate dissipation:	5,000 Watts
Maximum screen dissipation:	---
Maximum grid dissipation:	150 Watts
Frequency for max rating (CW):	75 MHz
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:	20.0 pF
Capacitance: Grounded grid	
Input:	--- pF
Output:	--- pF
Feedthrough:	--- pF
Cooling:	Water and Forced Air
Base:	Flexible Filament Leads
Air Socket:	---
Air Chimney:	---
Boiler:	---
Length:	22.06 in; 560.30 mm
Diameter:	3.63 in; 92.10 mm
Weight:	6.0 lb; 2.7 kg

BENEFITS:

- Worldwide brand name recognition
- Over 85 years technical expertise

APPLICATIONS:

- Industrial

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

With a history of producing high quality products, we can help you with your triode.

Contact us at MPPMarketing@cpii.com or call us at +1 650-846-2800. The data should be used for basic information only.

Formal, controlled specifications may be obtained from CPI for use in equipment design.



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For more detailed information, please refer to the corresponding CPI technical description if one has been published, or contact CPI. Specifications may change without notice as a result of additional data or product refinement. Please contact CPI before using this information for system design.

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