

Communications & Power Industries Triode



The 3CW2500D3 is a water-cooled, ceramic/metal, medium-mu power triode designed primarily for use in industrial RF heating services. Its water-cooled anode is conservatively rated at 3.0 kW of plate dissipation with low water flow and pressure drop. This tube is a version of the air-cooled 3CX2500D3 and is recommended for industrial applications where reserve anode dissipation is required. Input of 8.1 kW is permissible up to 110 MHz. Plentiful reserve emission is available from its 232.5 watt filament. The grid structure is rated at 75 watts making this tube an excellent choice for industrial service.

FEATURES:

Maximum plate dissipation:	3,000 Watts
Maximum screen dissipation:	---
Maximum grid dissipation:	75 Watts
Frequency for max rating (CW):	110 MHz
Amplification factor:	24
Filament/cathode:	Thoriated Tungsten
Voltage:	7.5 Volts
Current:	31.0 Amps
Capacitance: Grounded cathode	
Input:	20.39 pF
Output:	0.89 pF
Feedthrough:	9.0 pF
Capacitance: Grounded grid	
Input:	--- pF
Output:	--- pF
Feedthrough:	--- pF
Cooling:	Water and Forced Air
Base:	3-Pin Special
Air Socket:	---
Air Chimney:	---
Boiler:	---
Length:	7.6 in; 19.30 cm
Diameter:	2.5 in; 6.35 cm
Weight:	2.2 lb; 1.0 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	RF industrial oscillator or amplifier	7,000	1.5	6,000	---	1.21	165	5.27

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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