

## Communications & Power Industries Triode



The 3CW7000H3/Y-842A 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 7 kW of plate dissipation with low water flow and pressure drop. The tube is a version of the air-cooled 3CX4500F3 and is recommended for industrial applications where reserve anode dissipation is required. Input of 25 kW is permissible up to 75 MHz. Plentiful reserve emission is available from its 546 watt filament. The grid structure is rated at 300 watts make this tube an excellent choice for industrial service.

### FEATURES:

Maximum plate dissipation:	7,000 Watts
Maximum screen dissipation:	---
Maximum grid dissipation:	300 Watts
Frequency for max rating (CW):	75 MHz
Amplification factor:	22
Filament/cathode:	Thoriated Tungsten
Voltage:	7.0 Volts
Current:	78.0 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:	12.56 in; 31.9 cm
Diameter:	3.63 in; 9.22 cm
Weight:	4.4 lb; 2.0 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	9,000	3.0	8,000	---	2.75	710	15.0

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

Contact us at [MPPMarketing@cpii.com](mailto: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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