

The 3CW7000H3/Y-842A 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 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, making this tube an excellent choice for industrial service.



CHARACTERISTICS

Plate Dissipation (Max.)	7,000 Watts
Screen Dissipation (Max.)	---
Grid Dissipation (Max.)	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 pf
Capacitance	---
Input	--- pf
Output	--- pf
Feedthrough	--- pf
Cooling	Water and Forced Air
Base	Flexible 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

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

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 products, visit our website at: www.cpii.com, or contact: CPI MPP Division, Eimac Operations, 607 Hansen Way, Palo Alto, CA 94303
TELEPHONE: 1(800) 414-8823. **FAX:** (650) 592-9988 | **EMAIL:** powergrid@cpii.com