Communications & Power Industries

3CW2500D3

The 3CW2500D3 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 for 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.

CHARACTERISTICS

Plate Dissipation (Max.)	3,000 Watts
Screen Dissipation (Max.)	---
Grid Dissipation (Max.)	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	---
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

		MAXIMUM RATINGS		TYPICAL OPERATION				
Class of Operation	Type of Service	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

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
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