

dissipation rating.



The 3CW20,000A7 is a high-mu power triode intended to be used as a zero bias Class B amplifier in audio or radio frequency applications. Operation with zero-grid bias offers circuit simplicity by eliminating the bias supply. In addition, grounded grid operation is attractive since a power gain as high as twenty times can be obtained. The 3CW20,000A7 is electrically identical to the aircooled 3CX10,000A7 except for its 20kW plate



3CW20,000A7

CHARACTERISTICS

Plate Dissipation (Max.) 20,000 Watts Screen Dissipation (Max.) Grid Dissipation (Max.) 500 Watts Frequency for Max. rating (CW) 110 MHz

Amplification Factor Filament/Cathode

Voltage Current

Capacitance

Input Output Feedthrough

Capacitance

Input Output Feedthrough

Cooling Base Air Socket Air Chimney Boiler

Length Diameter Weight

200

Thoriated Tungsten

7.5 Volts 99.0 Amps

Grounded Cathode

59.0 pf 0.2 pf 36 pf

Grounded Grid 59.0 pf 36.0 pf

Water and Forced Air

Coaxial SK-1300

0.2 pf

11.22 in; 285.00 mm 4.65 in; 118.10 mm 11.5 lb; 5.2 kg

		MAXIMUI	M 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)
С	Grid driven RF amplifier	7,000	4.0	7,000		4.0	530	21.3
С	Grid driven RF amplifier plate modulated	5,500	3.0	5,000		3.0	380	11.9
В	Cathode driven RF linear amplifier	7,000	5.0	7,000		5.0	1,540	24.2
В	Cathode driven RF linear amplifier	7,000	5.0	7,000		2.4	330	5.65

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