

can be obtained.



The 3CX20,000A7 is a high-mu power triode intended for use as a zero bias Class B RF amplifier or Class C power amplifier or oscillator. Class B operation with zero grid bias offers circuit simplicity. In addition, grounded grid operation is attractive since a power gain as high as twenty times



3CX20,000A7

CHARACTERISTICS

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

200

13.5 oz; 6.15 kg

Amplification Factor

Filament/Cathode Thoriated Tungsten Voltage 6.3 Volts 160 Amps Current

Capacitance **Grounded Cathode**

Input 61.0 pf Output 0.2 pf 360 pf Feedthrough

Capacitance Grounded Grid 61.0 pf Input Output 36.0 pf Feedthrough 0.2 pf Cooling Forced Air

Coaxial Base Air Socket SK-1300 Air Chimney

Boiler Length 8.75 in; 222.20 mm Diameter 8.31 in; 211.10 mm

MAXIMUM R			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 at 110 MHz	10,000	5.0	7,000		4.0	430	21,300
С	Cathode driven RF amplifier at 110 MHz	10,000	5.0	7,800		4.2	2,300	27,500
В	Cathode driven RF amplifier TV service at 216 MHz	10,000	6.0	7,200		5.8	1,700	27,500
AB	Cathode driven linear amplifier at 110 MHz	10,000	6.0	7,000		5.0	1,540	24,200

Weight

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