

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 can be obtained.



CHARACTERISTICS

Plate Dissipation (Max.)	20,000 Watts
Screen Dissipation (Max.)	---
Grid Dissipation (Max.)	500 Watts
Frequency for Max. rating (CW)	110 MHz
Amplification Factor	200
Filament/Cathode	Thoriated Tungsten
Voltage	6.3 Volts
Current	160 Amps
Capacitance	Grounded Cathode
Input	61.0 pf
Output	0.2 pf
Feedthrough	360 pf
Capacitance	Grounded Grid
Input	61.0 pf
Output	36.0 pf
Feedthrough	0.2 pf
Cooling	Forced Air
Base	Coaxial
Air Socket	SK-1300
Air Chimney	---
Boiler	---
Length	8.75 in; 222.20 mm
Diameter	8.31 in; 211.10 mm
Weight	13.5 oz; 6.15 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	Grid driven RF amplifier at 110 MHz	10,000	5.0	7,000	---	4.0	430	21,300
C	Cathode driven RF amplifier at 110 MHz	10,000	5.0	7,800	---	4.2	2,300	27,500
B	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

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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