

Communications & Power Industries Triode



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.

FEATURES:

Maximum plate dissipation:	20,000 Watts
Maximum screen dissipation:	---
Maximum grid dissipation:	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:	36.0 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 lb; 6.15 kg

BENEFITS:

- Worldwide brand name recognition
- Over 85 years technical expertise

APPLICATIONS:

- Communications
- Industrial

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

With a history of producing high quality products, we can help you with your triode.

Contact us at MPPMarketing@cpii.com or call us at +1 650-846-2800. The data should be used for basic information only.

Formal, controlled specifications may be obtained from CPI for use in equipment design.



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For more detailed information, please refer to the corresponding CPI technical description if one has been published, or contact CPI. Specifications may change without notice as a result of additional data or product refinement. Please contact CPI before using this information for system design.

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