

Communications & Power Industries Triode



The 3CW20,000H7 is a high- μ power triode intended for use as a dc voltage or current regulator, or in a high voltage switch tube or pulsed regulator service. In addition, since the tube is identical to the 3CW20,000A7 except for the anode and grid flanges and the addition of the filament flying leads, it is useful as a zero bias Class B amplifier in audio or RF applications.

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:	7.5 Volts
Current:	99.0 Amps
Capacitance: Grounded cathode	
Input:	59.0 pF
Output:	0.2 pF
Feedthrough:	36.0 pF
Capacitance: Grounded grid	
Input:	--- pF
Output:	--- pF
Feedthrough:	--- pF
Cooling:	Water and Forced Air
Base:	Flexible Filament Leads
Air Socket:	---
Air Chimney:	---
Boiler:	---
Length:	20.70 in; 525.80 mm
Diameter:	6.75 in; 171.40 mm
Weight:	12.0 lb; 5.5 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)
AB	Cathode driven RF linear amplifier	7,000	5.0	7,000	---	5.0	1,540	24.0
AB	Cathode driven RF linear amplifier (AM service)	7,000	5.0	7,000	---	2.4	330	5.65
AB	Grid driven AF amplifier or modulator	7,000	5.0	7,000	---	10.0	560	47.0

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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