

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.



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	7.5 Volts
Current	99.0 Amps
Capacitance	Grounded Cathode
Input	59.0 pf
Output	0.2 pf
Feedthrough	36 pf
Capacitance	---
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

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

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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