Communications & Power Industries Triode





The 3CW20,000A7 is a high-mu power triode intended for use as a zero bias Class B amplifier in audio or RF applications. Operation with zero-grid bias offers circuit simplicity by eliminating the bias supply. In addition, grounded grid operation is attractive since a power gain as high as twenty times can be obtained. The 3CW20,000A7 is electrically identical to the air-cooled 3CX10,000A7 except for its 20 kW plate dissipation rating.

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: 59.0 pF
Output: 36.0 pF
Feedthrough: 0.2 pF

Cooling: Water and Forced Air

Base: Coaxial Air Socket: SK-1300

Air Chimney: --Boiler: ---

 Length:
 11.22 in; 285.00 mm

 Diameter:
 4.65 in; 118.10 mm

Weight: 11.5 lb; 5.2 kg

BENEFITS:

Worldwide brand name recognition

• Over 85 years technical expertise

APPLICATIONS:

Industrial

Medical



		MAXIMUM 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	7,000	4.0	7,000		4.0	530	21.3
С	Grid driven RF amplifier plate modulated	5,500	3.0	5,000		3.0	380	11.9
В	Cathode driven RF linear amplifier	7,000	5.0	7,000		5.0	1,540	24.2
В	Cathode driven RF linear amplifier	7,000	5.0	7,000		2.4	330	5.65

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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