Communications & Power Industries Triode





The 3CX10,000A7/8160 is a high-mu power triode intended for use as a zero bias Class B amplifier an audio or RF applications, or as a Class C amplifier, CW or modulated. Operation in a Class B with zero grid bias offers circuit simplicity by eliminating the bias supply, and in addition, grounded grid operation is attractive since a power gain as high as twenty times can be obtained with the tube.

FEATURES:

Maximum plate dissipation: 10,000 Watts

Maximum screen dissipation: ---

Maximum grid dissipation: 500 Watts Frequency for max rating (CW): 160 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: Forced Air
Base: Coaxial
Air Socket: SK-1300
Air Chimney: SK-1306

Boiler: --

 Length:
 8.75 in; 222.20 mm

 Diameter:
 7.05 in; 179.10 mm

Weight: 12.0 lb; 5.5 kg

BENEFITS:

- Worldwide brand name recognition
- Over 85 years technical expertise

APPLICATIONS:

- Communications
- 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	Cathode driven RF amplifier	8,000	4.0	7,600		3.7	1,510	22.5
С	Grid driven RF amplifier plate modulated	6,500	3.0	5,000		3.0	380	11.9
AB2	Cathode driven RF amplifier	8,000	5.0	7,000		5.0	1,540	24.2
AB2	Cathode driven RF linear amplifier AM service	8,000	5.0	7,000		2.4	330	5.6
AB2	Grid driven AF amplifier or modulator	8,000	5.0	7,000		10.0	560	47.7

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.



Microwave Power Products Division 811 Hansen Way Palo Alto, California USA 94304 tel +1 650-846-2800 fax +1 650-856-0705 email MPPMarketing@cpii.com web www.cpii.com/MPP 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.