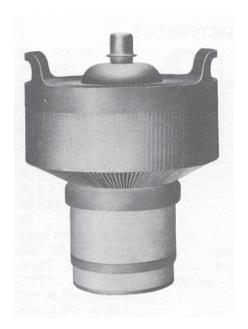




The 3CX10,000A7/8160 is a high-mu power triode and is intended for use as a zero bias Class B amplifier an audio or RF applications, or as a Class C amplifier, CW or modulated. Operation in a Class B with zero grid bias offers circuit simplicity by eliminating the bias supply, and in addition grounded-grid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



## 3CX10,000A7/8160

## **CHARACTERISTICS**

Plate Dissipation (Max.) 10,000 Watts Screen Dissipation (Max.) Grid Dissipation (Max.) 500 Watts

Frequency for Max. rating (CW) 160 MHz **Amplification Factor** 200

Filament/Cathode

Voltage Current

Capacitance

Input Output Feedthrough

Capacitance

Input Output Feedthrough Cooling Base

Air Socket Air Chimney Boiler

Length Diameter Weight

Thoriated Tungsten

7.5 Volts 99.0 Amps

**Grounded Cathode** 

59.0 pf 36.0 pf 0.2 pf

Grounded Grid 59.0 pf 0.2 pf 36 pf Forced Air Coaxial

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SK-1300

SK-1306

8.75 in; 222.20 mm 7.05 in; 179.10 mm 12.0 lb; 5.5 kg

		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

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 TELEPHONE: 1(800) 414-8823. FAX: (650) 592-9988 | EMAIL: powergrid@cpii.com