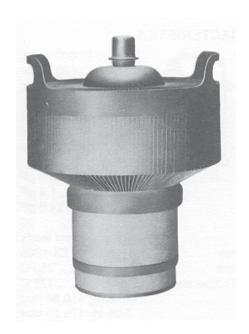


with the tube.



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 pow-

er gain as high as twenty times can be obtained



## 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 Thoriated Tungsten Voltage 7.5 Volts 99.0 Amps Current

Capacitance **Grounded Cathode** Input

59.0 pf Output 36.0 pf Feedthrough 0.2 pf

Capacitance Grounded Grid Input 59.0 pf Output 0.2 pf Feedthrough 36 pf Cooling Forced Air Coaxial Base SK-1300 Air Socket

Air Chimney

Length 8.75 in; 222.20 mm Diameter 7.05 in; 179.10 mm Weight 12.0 lb; 5.5 kg

SK-1306

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| MAXIMU                |                                               |                             | M RATINGS                  | TYPICAL OPERATION           |                              |                            |                           |                                |
|-----------------------|-----------------------------------------------|-----------------------------|----------------------------|-----------------------------|------------------------------|----------------------------|---------------------------|--------------------------------|
| Class of<br>Operation | Type of Service                               | Plate<br>Voltage<br>(Volts) | Plate<br>Current<br>(Amps) | Plate<br>Voltage<br>(Volts) | Screen<br>Voltage<br>(Volts) | Plate<br>Current<br>(Amps) | Drive<br>Power<br>(Watts) | Output<br>Power<br>(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                           |

Boiler

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