

The 4CX5000A/8170 is useful as an oscillator, amplifier or modulator at frequencies up to 220 MHz, Class AB1 audio amplifier, or as a screen-modulated radio frequency amplifier. The rated plate dissipation is 5 kW for most classes of services and 6 kW for Class AB operation.



CHARACTERISTICS

| | |
|--------------------------------|--------------------|
| Plate Dissipation (Max.) | 6,000 Watts |
| Screen Dissipation (Max.) | 250 Watts |
| Grid Dissipation (Max.) | 75 Watts |
| Frequency for Max. rating (CW) | 220 MHz |
| Amplification Factor | 4.5 |
| Filament/Cathode | Thoriated Tungsten |
| Voltage | 7.5 Volts |
| Current | 75 Amps |
| Capacitance | Grounded Cathode |
| Input | 120.0 pf |
| Output | 20.5 pf |
| Feedthrough | 0.7 pf |
| Capacitance | Grounded Grid |
| Input | 56.0 pf |
| Output | 21.5 pf |
| Feedthrough | 0.1 pf |
| Cooling | Forced Air |
| Base | Special Coaxial |
| Air Socket | SK-300A/SK-360 |
| Air Chimney | SK-306/SK-356 |
| Boiler | --- |
| Length | 9.13 in; 231.8 mm |
| Diameter | 4.94 in; 125.4 mm |
| Weight | 9.5 lb; 4.3 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) |
| C | RF amplifier | 7,500 | 3.0 | 6,500 | 750 | 2.3 | 100 | 10.0 |
| C | RF amplifier plate modulated | 5,500 | 2.5 | 5,000 | 500 | 1.4 | 25 | 5.8 |
| C | RF amplifier screen modulated | 7,500 | 3.0 | 7,500 | 350 | 1.1 | 11 | 3.55 |
| AB1 | RF linear amplifier | 7,500 | 4.0 | 7,500 | 1,250 | 1.9 | --- | 10.0 |
| AB1 | AF amplifier or modulator | 7,500 | 4.0 | 7,000 | 1,250 | 3.7 | --- | 17.5 |

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 Operation, 607 Hansen Way, Palo Alto, CA 94303
TELEPHONE: 1(800) 414-8823. **FAX:** (650) 592-9988 | **EMAIL:** powergrid@cpii.com