

Communications & Power Industries Tetrode



The 4CX7500A is a compact tetrode designed to be used in VHF power amplifier service. It features a type of internal structure which results in high RF operating efficiency up to 220 MHz. A dense mesh filament is used which contributes to the high performance capability of the tube. This tube is also recommended for use as a VHF TV linear amplifier.

FEATURES:

| | |
|--------------------------------|--------------------|
| Maximum plate dissipation: | 7,500 Watts |
| Maximum screen dissipation: | 165 Watts |
| Maximum grid dissipation: | 50 Watts |
| Frequency for max rating (CW): | 220 MHz |
| Amplification factor: | 8.0 |
| Filament/cathode: | Thoriated Tungsten |
| Voltage: | 7.0 Volts |
| Current: | 110 Amps |
| Capacitance: Grounded cathode | |
| Input: | 145.0 pF |
| Output: | 20.0 pF |
| Feedthrough: | 0.53 pF |
| Capacitance: Grounded grid | |
| Input: | 74.1 pF |
| Output: | 20.6 pF |
| Feedthrough: | 0.7 pF |
| Cooling: | Forced Air |
| Base: | Special Coaxial |
| Air Socket: | SK-340 |
| Air Chimney: | --- |
| Boiler: | --- |
| Length: | 9.27 in; 235.46 mm |
| Diameter: | 5.66 in; 143.76 mm |
| Weight: | 8.4 lb; 3.8 kg |

BENEFITS:

- Worldwide brand name recognition
- Over 85 years technical expertise

APPLICATIONS:

- Communications

| 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 | 2.40 | 130 | 12.1 |
| AB1 | AF linear amplifier | 7,500 | 3.0 | 7,500 | 1,250 | 2.20 | --- | 10.0 |

With a history of producing high quality products, we can help you with your tetrode.

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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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.

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