

Communications & Power Industries Triode



The 3CW5000A7 is a water-cooled high-mu triode intended for use as an RF amplifier in industrial applications where water cooling is preferred over air cooling. This tube is a water-cooled version of the 3CX3000A7.

FEATURES:

| | |
|--------------------------------|----------------------|
| Maximum plate dissipation: | 5,000 Watts |
| Maximum screen dissipation: | --- |
| Maximum grid dissipation: | 225 Watts |
| Frequency for max rating (CW): | 110 MHz |
| Amplification factor: | 160 |
| Filament/cathode: | Thoriated Tungsten |
| Voltage: | 7.5 Volts |
| Current: | 51.5Amps |
| Capacitance: Grounded cathode | |
| Input: | 38.0 pF |
| Output: | 0.6 pF |
| Feedthrough: | 24.0 pF |
| Capacitance: Grounded grid | |
| Input: | 38.0 pF |
| Output: | 24.0 pF |
| Feedthrough: | 0.6 pF |
| Cooling: | Water and Forced Air |
| Base: | Special Coaxial |
| Air Socket: | --- |
| Air Chimney: | --- |
| Boiler: | --- |
| Length: | 12.625 in; 32.0 cm |
| Diameter: | 3.625 in; 9.22 cm |
| Weight: | 4.8 lb; 2.2 kg |

BENEFITS:

- Worldwide brand name recognition
- Over 85 years technical expertise

APPLICATIONS:

- Industrial

| 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) |
| AB2 C | Cathode Driven RF Linear Amplifier | 5,000 | 2.5 | 4,800 | --- | 2.0 | 410 | 7.26 |
| | Cathode Driven RF Amplifier | 5,000 | 0.9 | 4,800 | --- | 1.5 | 435 | 5.5 |

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.



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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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