

## Communications & Power Industries Triode



The 3CPX1500A7 is a rugged high-mu triode designed with beam-forming cathode and control grid geometry to allow the simplicity of design and circuit advantages of a triode with the gain of a tetrode. The tube is intended for pulse modulator or pulse regulator service. The external anode may be forced-air cooled; or, for increased high voltage holdoff, the tube may be immersed in an insulating liquid which is also used to cool the tube. This tube may be used in a grid or plate pulsed RF application where high peak power is required.

### FEATURES:

Maximum plate dissipation:	1,500 Watts
Maximum screen dissipation:	---
Maximum grid dissipation:	25 Watts
Frequency for max rating (CW):	250 MHz
Amplification factor:	200
Filament/cathode:	Oxide Coated
Voltage:	5.5 Volts
Current:	11.2 Amps
Capacitance: Grounded cathode	
Input:	38.5 pF
Output:	0.2 pF
Feedthrough:	10.0 pF
Capacitance: Grounded grid	
Input:	--- pF
Output:	--- pF
Feedthrough:	--- pF
Cooling:	Liquid or Forced Air
Base:	7-Pin Special
Air Socket:	SK-2200
Air Chimney:	SK-2216
Boiler:	---
Length:	4.02 in; 102.0 mm
Diameter:	3.38 in; 86.0 mm
Weight:	26.02 oz; 0.737 gm

### BENEFITS:

- Worldwide brand name recognition
- Over 85 years technical expertise

### APPLICATIONS:

- Industrial
- Medical

Class of Operation	Type of Service	MAXIMUM RATINGS		TYPICAL OPERATION				
		Plate Voltage (kiloVolts)	Plate Current (Amps)	Plate Voltage (kiloVolts)	Screen Voltage (Volts)	Plate Current (Amps)	Drive Power (Watts)	Output Power (kiloWatts)
NA	Grid driven regulator or modulator	10.0	50.0	10.0	---	40.0	697	306.0
NA	Grid driven pulse regulator or modulator	15.0	50.0	15.0	---	40.0	735	506.0
C	Pulsed RF Amplifier	7.5	15 peak	7.0	---	4.56	1450	21.2

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

Contact us at [MPPMarketing@cpii.com](mailto: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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