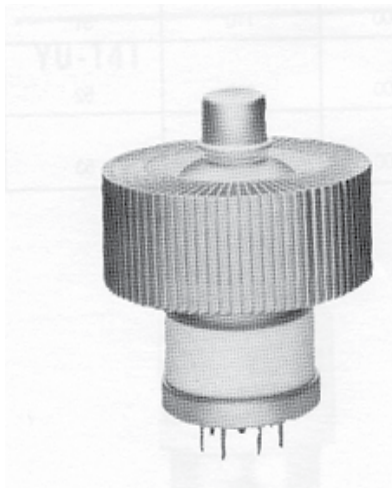


The 3CPX1500A7 is a rugged high-mu power triode, designed with beam-forming cathode and control grid geometry to allow the simplicity of design and circuit advantages of a triode with the gain of a tetrode. The tube is intended for pulse modulator or pulse regulator service. The external anode may be 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.



## CHARACTERISTICS

|                                |                    |
|--------------------------------|--------------------|
| Plate Dissipation (Max.)       | 1,500 Watts        |
| Screen Dissipation (Max.)      | ---                |
| Grid Dissipation (Max.)        | 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 pf              |
| Capacitance                    | ---                |
| Input                          | --- pf             |
| Output                         | --- pf             |
| Feedthrough                    | --- pf             |
| Cooling                        | Liquid or Air      |
| Base                           | Special 7 pin      |
| Air Socket                     | SK-2200            |
| Air Chimney                    | SK-2216            |
| Boiler                         | ---                |
| Length                         | 4.02 in; 102. mm   |
| Diameter                       | 3.38 in; 86 mm     |
| Weight                         | 26.02 oz; 0.737 gm |

| 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                     |

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.



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**TELEPHONE:** 1(800) 414-8823. **FAX:** (650) 592-9988 | **EMAIL:** [powergrid@cpii.com](mailto:powergrid@cpii.com)