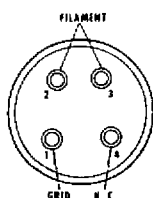
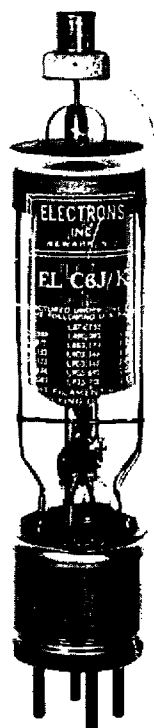
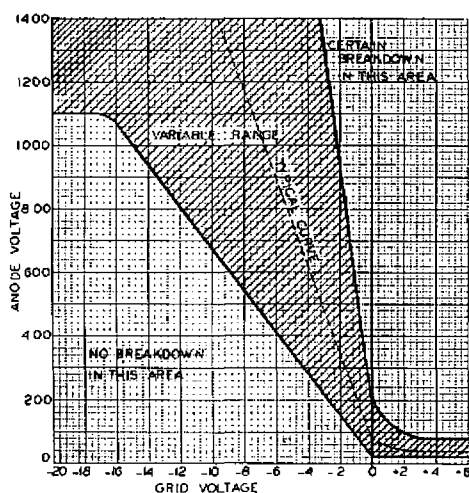


## GRID CONTROL RECTIFIER TUBE

## Xenon Gas Filling

BOTTOM VIEW  
OF BASE

|                                               |                       |
|-----------------------------------------------|-----------------------|
| Maximum Rated Anode Current                   |                       |
| D-c. Meter Value-Continuous                   | 6.4 amps              |
| D-c. Meter Value-Overload less than 3 sec.    | 12.8 amps             |
| Averaging Time                                | 6 secs                |
| Oscillograph Peak-Continuously recurring      | 77 amps               |
| Peak Forward Voltage (Max. Instantaneous)     | 1000 volts            |
| Peak Inverse Voltage (Max. Instantaneous)     | 1250 volts            |
| Max. Commutation Factor (V/usec x A/usec)     | 130                   |
| Filament                                      |                       |
| Voltage                                       | 2.5 volts             |
| Current                                       | 21 $\frac{1}{2}$ amps |
| Heating Time (minimum)                        | 60 secs               |
| Average Arc Drop                              |                       |
| Average Tube                                  | 11 volts              |
| Highest Tube                                  | 15 volts              |
| Anode Starting Voltage @ +3V d-c grid voltage |                       |
| Average Tube                                  | 40 volts              |
| Highest Tube                                  | 80 volts              |
| Max. Anode Emission                           | 100 uamps             |
| Grid Characteristics                          |                       |
| Critical Grid Voltage @ 1000 p.f.v.           | -2.0 to -15 volts     |
| Critical Grid Current                         | Less than 20 uamps    |
| Grid-Anode Capacitance                        | approx. 5 uuf         |
| Grid-Filament Capacitance                     | approx. 21 uuf        |

|                                                         |                      |
|---------------------------------------------------------|----------------------|
| Maximum Negative Grid Voltage                           | 100 volts            |
| Deionization Time                                       | Less than 1000 usecs |
| Max. Peak A-c Fault Current<br>(Max. duration 0.1 sec.) | 770 amps             |
| Ambient Temperature Limits                              | -55° to +75° C       |
| Overall Dimensions                                      | 2-1/32" x 8-3/4" max |
| Weight                                                  | 7 ozs.               |

|                   |                                               |
|-------------------|-----------------------------------------------|
| Connections       |                                               |
| Filament and Grid | Metal industrial base A4-81                   |
| Anode             | C1-5 cap (0.56" dia.) with ceramic insulator. |

The filament must be lit before drawing d-c. load current

The anode is designed to operate at red heat when under full load. All of the above values are for returns to the filament transformer center tap. Filament pin #2 should be negative with respect to pin #3 during the anode conduction period.

The Engineering Manual contains additional information which should be considered in the circuit design.

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