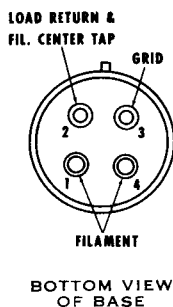


## GRID CONTROL RECTIFIER TUBE



### TANTALUM ANODE AND XENON GAS FILLING

|   |  |          |
|---|--|----------|
| Maximum Rated Anode Current                         |  |          |
| D-c. Meter Value-Continuous                         |  | 2.5 amps |
| D-c. Meter Value-Overload less than 3 sec.          |  | 3.7 amps |
| Averaging Time                                      |  | 4.5 secs |
| Oscillograph Peak-Continuously recurring            |  | 30 amps  |
| Max. Instantaneous Short Circuit Current (0.1 sec.) |  | 300 amps |

|   |            |
|---|------------|
| Peak Forward Voltage (Max. Instantaneous) | 1000 volts |
| Peak Inverse Voltage (Max. Instantaneous) | 1250 volts |

|   |      |
|---|------|
| Max. Commutation Factor (V/usec x A/usec)         | 0.66 |
| at a maximum initial inverse voltage of 350 volts |      |

|                        |           |
|------------------------|-----------|
| Filament               |           |
| Voltage                | 2.5 volts |
| Current                | 9±2 amps  |
| Heating Time (minimum) | 30 secs   |

|                             |          |
|-----------------------------|----------|
| Average Arc Drop            |          |
| Average Tube                | 10 volts |
| Highest Tube at end of life | 14 volts |

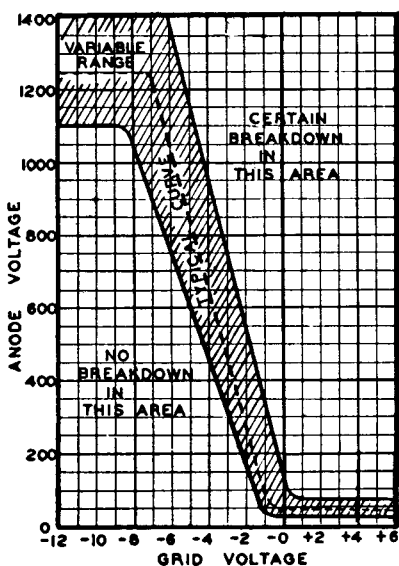
|  |          |
|--|----------|
| Anode Starting Voltage (D. C.) @ +4V d-c. grid voltage |          |
| Average Tube   | 40 volts |
| Highest Tube   | 75 volts |

|                                     |                    |
|-------------------------------------|--------------------|
| Grid Characteristics                |                    |
| Critical Grid Voltage @ 1000 p.f.v. | -6.0±1.8 volts     |
| Critical Grid Current               | Less than 10 uamps |
| Grid-Anode Capacitance              | approx. 2 uuf      |
| Grid-Filament Capacitance           | approx. 14 uuf     |

|                               |                      |
|-------------------------------|----------------------|
| Maximum Negative Grid Voltage | 100 volts            |
| Deionization Time             | Less than 1000 usecs |
| Ambient Temperature Limits    | -55° to +75° C       |
| Mounting Position             | Any                  |
| Overall Dimensions            | 1-9/16" x 6" max.    |
| Weight                        | 3 ozs.               |

|                   |                                       |
|-------------------|---------------------------------------|
| Connections       |                                       |
| Filament and Grid | Metal medium 4-pin bayonet base A4-10 |
| Anode             | C1-5 cap at top (0.56" dia.)          |

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



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