GRID CONTROL RECTIFIER TUBE

(Tentative Data)

TANTALUM ANODE AND XENON GAS FILLING

Maximum Rated Anode Current
D-c. Meter Value - Continuous 1.0 amp
Averaging Time 4.5 secs
Oscillograph Peak - Continuously recurring 8.0 amps
Max. Short Circuit Current (0.1 sec.) 77 amps

Peak Forward Voltage (Max. Instantaneous) 2000 volts
Peak Inverse Voltage (Max. Instantaneous) 2000 volts

Minimum total effective anode to anode commutating inductance for peak inverse duty in excess of 1250 v must be 0.6 mh/volt of peak inverse above 1250 v.

Max. Commutation Factor (V/usec x A/usec) 0.04 at a maximum initial inverse voltage of 700 volts

Filament
Voltage 2.5 volts
Current 6.370.8 amps
Heating Time (minimum) 25 secs

Average Arc Drop
Average Tube 8 volts
Highest Tube at end of life 14 volts

Anode Starting Voltage (D.C.) @ +4V d-c. grid voltage
Average Tube 25 volts
Highest Tube 75 volts

Grid Characteristics
Critical Grid Voltage @ 2000 p.f. v. -7.0±3.0 volts
Critical Grid Current Less than 5 uamps
Grid-Anode Capacitance approx. 1 uuf
Grid-Filament Capacitance approx. 10 uuf

Maximum Negative Grid Voltage 100 volts

Deionization Time Less than 500 usecs

Ambient Temperature Limits -55° to +75° C

Mounting Position Any

Overall Dimensions 1-9/16" x 4-3/8" Max.
Weight 3 ozs.

Connections
Filament, Grid and Anode Metal medium 4-pin bayonet base A4-10

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.

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