GRID CONTROL RECTIFIER TUBE

Xenon Gas Filling

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 2122 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 770 amps
(Max. duration 0.1 sec.) -55° to +75° C
Ambient Temperature Limits 2-3/4" x 5-3/16" x 8" Max.
Overall Dimensions
Weight 8 ozs.

Connections
Filament and Grid 6-1/8" flexible leads with lugs for #10 studs
Anode C1-5 cap (0.56" dia.) with ceramic insulator
Panel-mounted on two 1/4" studs 4-1/8" apart.
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 lead F- should be negative with respect to
F+ during the anode conduction period.
The Engineering Manual contains additional information which should
be considered in the circuit design.

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