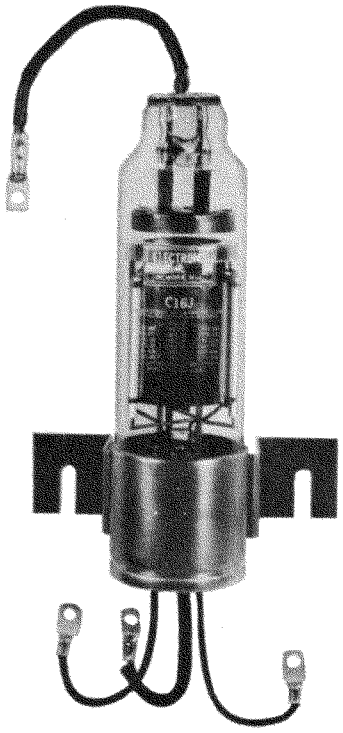
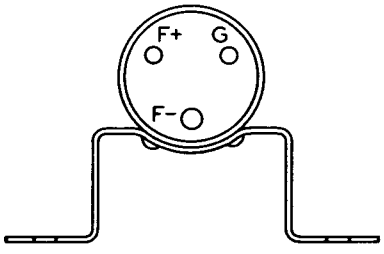
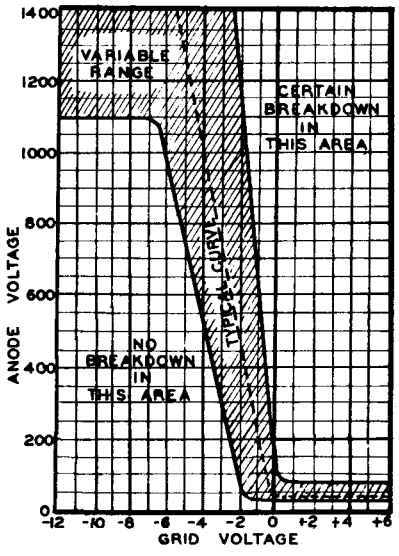
GRID CONTROL RECTIFIER TUBE

TANTALUM ANODE AND XENON GAS FILLING





BOTTOM VIEW OF BASE



Maximum Rated Anode Current		
D-c. Meter Value-Continuous	16	18 amps
D-c. Meter Value-Overload less than 3 sec.	24	24 amps
Averaging Time	4.5	4.5 secs
Oscillograph Peak-Continuously recurring	160	100 amps
Max. Instantaneous Short Circuit Current (0.1 sec.)		1000 amps
Peak Forward Voltage (Max. Instantaneous)		1000 volts
Peak Inverse Voltage (Max. Instantaneous)		1250 volts
Max. Commutation Factor (V/usec x A/usec) at a maximum initial inverse voltage of 330 volts		0.66
Filament		
Voltage		2.5 volts
Current		31±3 amps
Heating Time (minimum)		60 secs
Average Arc Drop		
Average Tube		11 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.		-4.0±2.2 volts
Critical Grid Current		Less than 10 uamps
Grid-Anode Capacitance		approx. 8 uuf
Grid-Filament Capacitance		approx. 29 uuf
Maximum Negative Grid Voltage		100 volts
Deionization Time		Less than 1000 usecs
Ambient Temperature Limits		-55° to +75° C
Overall Dimensions		4-1/8" x 6-5/8" x 10-1/2" Max.
Weight		14-1/2 ozs.

Connections

F+ 5-5/8" flexible lead with plain lug for 1/4" stud
F- 5-5/8" flexible lead with plain lug for 1/4" stud
G 5-5/8" green flexible lead with yellow insulated lug for 1/4" stud
Anode 7-1/4" flexible lead at top- lug for 1/4" stud

Vertical panel-mounted on two 1/4" studs 5" apart on a horizontal line.

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 conduction period.

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

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