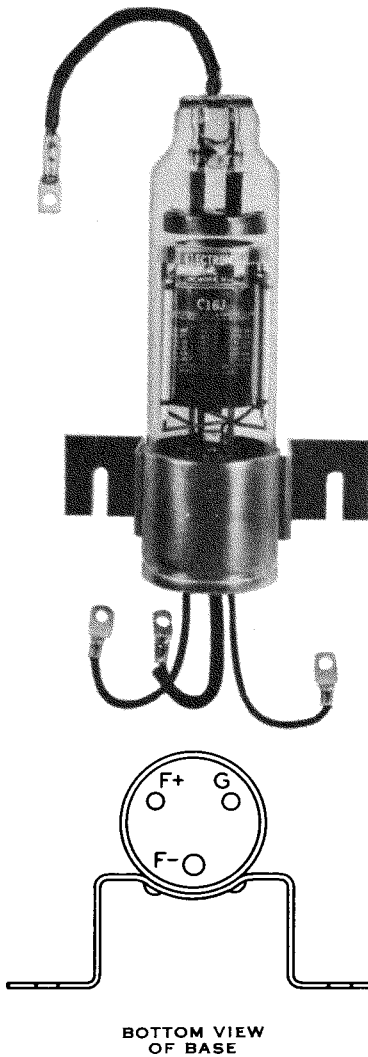


## GRID CONTROL RECTIFIER TUBE

### TANTALUM ANODE AND XENON GAS FILLING



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 (0.1sec.)		1000 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 330 volts	

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
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Deionization Time	Less than 1000 usecs
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Ambient Temperature Limits	-55° to +75° C
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Overall Dimensions	4-1/8" x 6-5/8" x 10-1/2" Max.
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Weight	14-1/2 ozs.
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#### Connections

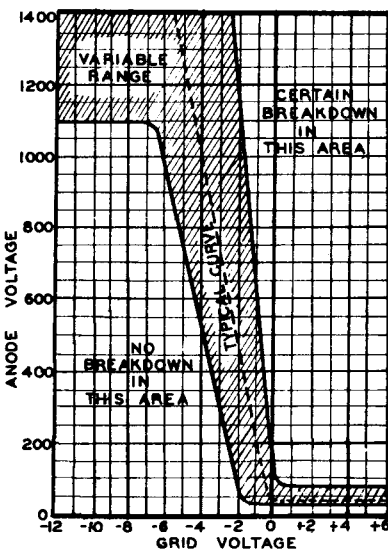
- F+ 5-5/8" flexible lead with plain lug for 1/4" stud
- F- 5-5/8" flexible lead with plain lug for 1/4" stud
- G 5-5/8" green flexible lead with yellow insulated lug for 1/4" stud
- Anode 7-1/4" flexible lead at top- lug for 1/4" stud

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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