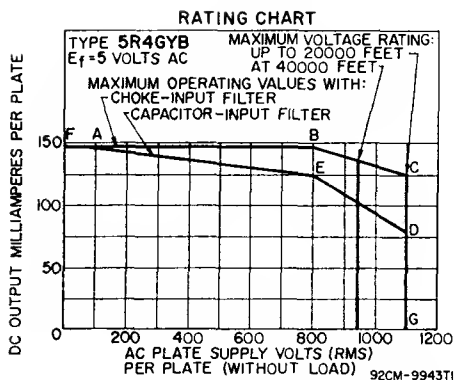




5R4GY 5R4GYB

For replacement use type 5R4GB.

5T4

Refer to chart at end of section.

5T8

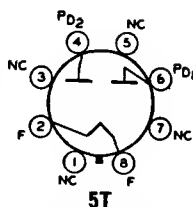
Refer to type 6T8A.

5U4G

Refer to chart at end of section.

5U4GB FULL-WAVE VACUUM RECTIFIER

Glass octal type used in power supplies of radio and color and black-and-white television receivers having high dc requirements. Outlines section, 19E; requires octal socket. This type may be supplied with pins 3, 5, and 7 omitted. Vertical mounting is preferred, but horizontal mounting is permissible if pins 2 and 4 are in vertical plane. The coated filament is designed to operate from the ac line through a step-down transformer. The voltage at the filament terminals should be 5 volts at an average line voltage of 117 volts. It is especially important that this tube, like other power-handling tubes, be adequately ventilated. For discussion of Rating Chart and Operation Characteristics, refer to Interpretation of Tube Data. Filament: volts (ac), 5; amperes, 3.



Full-Wave Rectifier

MAXIMUM RATINGS (Design-Maximum Values)

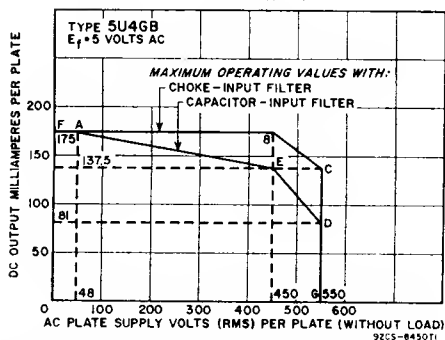
Peak Inverse Plate Voltage	
Peak Plate Current (Per Plate)	
Hot-Switching Transient Plate Current (Per Plate)	
AC Plate Supply Voltage (Per Plate, rms)	
Average Output Current (Per Plate)	

1550 volts
 1 ampere
 # See Rating Chart
 See Rating Chart

TYPICAL OPERATION WITH CAPACITOR INPUT TO FILTER

AC Plate-to-Plate Supply Voltage (rms)	600	900	1100	volts
Filter-Input Capacitor*	40	40	40	μ F
Total Effective Plate-Supply Impedance per Plate	21	67	97	ohms
DC Output Voltage at Input to Filter (Approx.):				
At full-load current of	150 mA	335	—	volts
	137.5 mA	—	520	volts
	81 mA	—	—	volts
	300 mA	290	—	volts
At half-load current of	275 mA	—	460	volts
	162 mA	—	—	volts
Voltage Regulation (Approx.):				
Half-load to full-load current	45	60	50	volts

RATING CHART



TYPICAL OPERATION WITH CHOKE INPUT TO FILTER

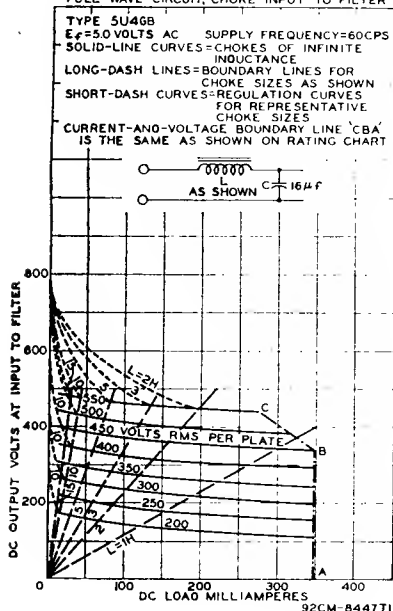
AC Plate-to-Plate Supply Voltage (rms)	900	1100	volts
Filter-Input Choke	10	10	henries
DC Output Voltage at Input to Filter (Approx.):			
At half-load current of { 174 mA	355	—	volts
137.5 mA	—	455	volts
At full-load current of { 348 mA	340	—	volts
275 mA	—	440	volts
Voltage Regulation (Approx.):			
Half-load to full-load current	15	15	volts

***If hot switching is regularly required in operation, the use of choke-input circuits is recommended. Such circuits limit the hot-switching current to a value no higher than that of the peak plate current. When capacitor-input circuits are used, a maximum peak current value per plate of 4.6 amperes during the initial cycles of the hot-switching transient should not be exceeded.**

* Higher values of capacitance than indicated may be used, but the effective plate-supply impedance may have to be increased to prevent exceeding the maximum rating for peak plate current.

OPERATION CHARACTERISTICS

FULL-WAVE CIRCUIT, CHOKE INPUT TO FILTER



OPERATION CHARACTERISTICS
FULL-WAVE CIRCUIT, CAPACITOR INPUT TO FILTER

