

5X8

Refer to type 6X8A.

5Y3G  
5Y3GA

For replacement use type 5Y3GT.

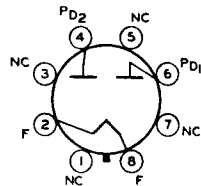
## 5Y3GT

FULL-WAVE  
VACUUM RECTIFIER

Glass octal type used in power supplies of radio and television equipment having moderate dc requirements.

Outlines section, 13E; requires octal socket. Vertical mounting is preferred, but horizontal mounting is permissible if pins 2 and 8 are in horizontal plane. It is especially important that this tube, like other power-handling tubes, be adequately ventilated. For discussion

of Rating Chart and Operating Characteristics, refer to Interpretation of Tube Data. Filament: volts (ac), 5; amperes, 2.



5T

Interpretation of

## Full-Wave Rectifier

## MAXIMUM RATINGS (Design-Center Values)

Peak Inverse Plate Voltage	1400	volts
Peak Plate Current (Per Plate)	440	mA
Hot-Switching Transient Plate Current (Per Plate)	2.5	amperes
AC Plate Supply Voltage (Per Plate, rms)	See Rating Chart	
DC Output Current (Per Plate)	See Rating Chart	

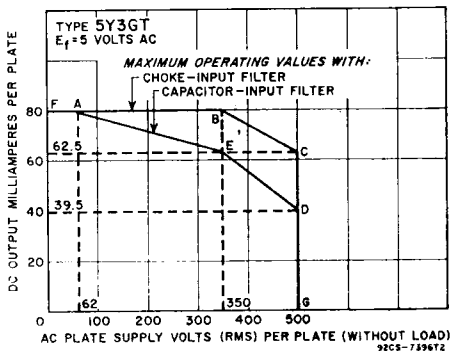
## TYPICAL OPERATION WITH CAPACITOR INPUT TO FILTER

AC Plate-to-Plate Supply Voltage (rms)	700	1000	volts
Filter Input Capacitor*	20	10	$\mu$ F
Effective Plate-Supply Impedance per Plate	50	140	ohms
DC Output Voltage at Input to Filter (Approx.):			
At half-load current of			
62.5 mA	390	—	volts
42 mA	—	610	volts
At full-load current of			
125 mA	360	—	volts
84 mA	—	560	volts
Voltage Regulation (Approx.):			
Half-load to full-load current	40	50	volts

## TYPICAL OPERATION WITH CHOKÉ INPUT TO FILTER

AC Plate-to-Plate Supply Voltage (rms)	700	1000	volts
Filter Input Choke#	10	10	henries
DC Output Voltage at Input to Filter (Approx.):			
At half-load current of			
75 mA	270	—	volts
62.5 mA	—	405	volts
At full-load current of			
150 mA	245	—	volts
125 mA	—	380	volts
Voltage Regulation (Approx.):			
Half-load to full-load current	25	15	volts

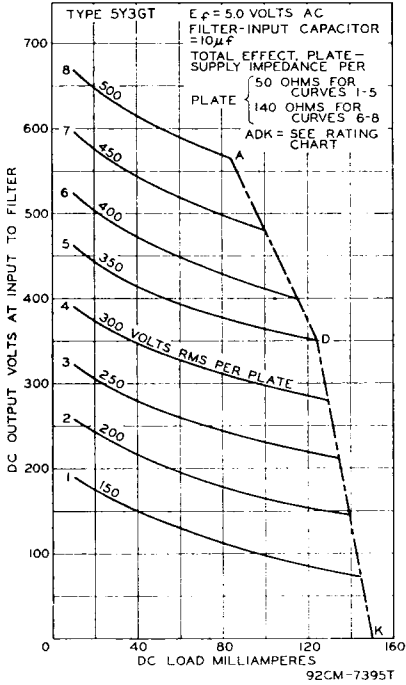
## RATING CHART



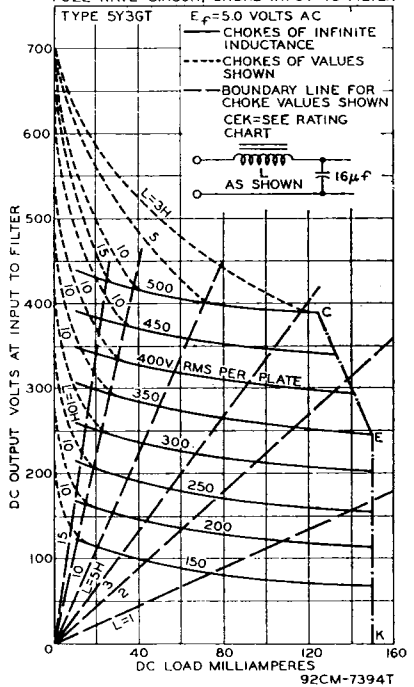
\* Higher values of capacitance than indicated may be used but the effective plate supply impedance may have to be increased to prevent exceeding the maximum rating for hot-switching transient plate current.

# This value is adequate to maintain optimum regulation in the region to the right of line L = 10H on curve OPERATION CHARACTERISTICS with Choke Input to Filter, provided the load currents are not less than 35 mA and 50 mA, respectively, for plate-to-plate supply voltages of 700 and 1000 volts (rms).

OPERATION CHARACTERISTICS  
FULL-WAVE CIRCUIT, CAPACITOR INPUT TO FILTER



OPERATION CHARACTERISTICS  
FULL-WAVE CIRCUIT, CHOKE INPUT TO FILTER



Refer to chart at end of section.

**5Y4G**

Refer to chart at end of section.

**5Y4GA  
5Y4GT**

Refer to chart at end of section.

**5Z3**

Refer to chart at end of section.  
For replacement use type 5Y3GT.

**5Z4**

Refer to chart at end of section.

**6A3**

Refer to chart at end of section.

**6A6**

Refer to chart at end of section.

**6A7**

Refer to chart at end of section.

**6A7S**

Refer to chart at end of section.

**6A8**

Refer to chart at end of section.

**6A8G  
6A8GT**