

5X8

Refer to type 6X8A.

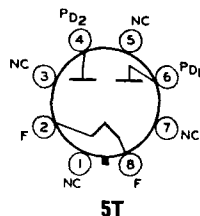
5Y3G
5Y3GA

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

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	

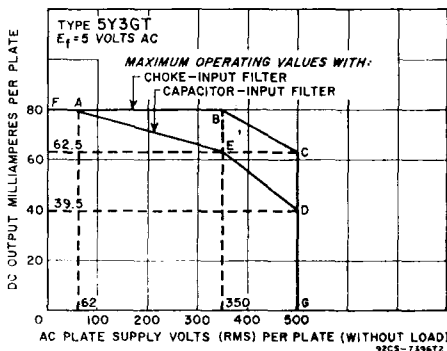
TYPICAL OPERATION WITH CAPACITOR INPUT TO FILTER

AC Plate-to-Plate Supply Voltage (rms)	700	1000	volts
Filter Input Capacitor*	20	10	μ 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 CHOKE 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

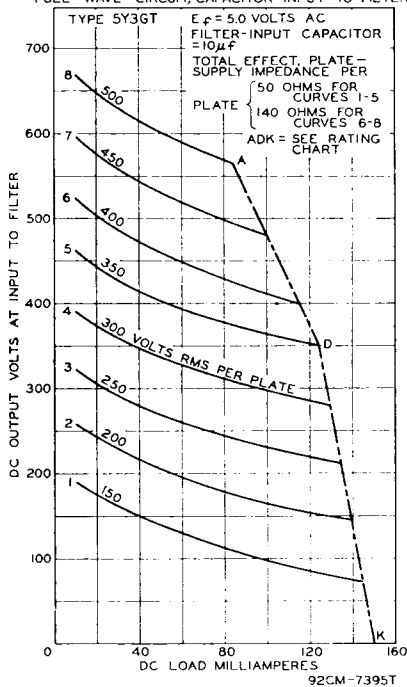
RATING CHART



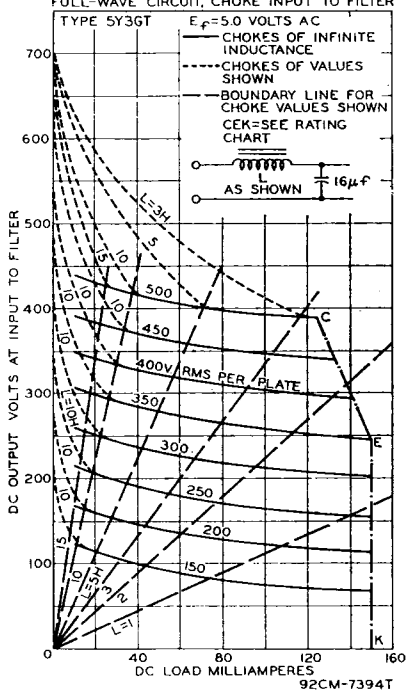
* Higher values of capacitance than indicated may be used but the effective plate supply impedance may have to be increased to prevent exceeding the maximum rating for hot-switching transient plate current.

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