

5X8

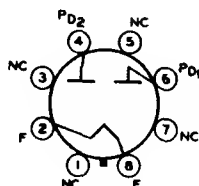
Refer to type 6X8A.

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)

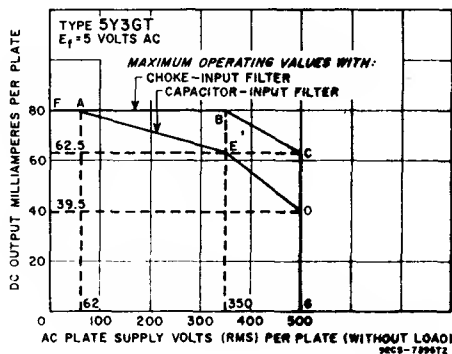
Peak Inverse Plate Voltage	1400	volts
Peak Plate Current (Per Plate)	440	mA
Hot-Switching Transient Plate Current (Per Plate)	2.5	amperes
AC Plate Supply Voltage (Per Plate, rms)	See Rating Chart	
DC Output Current (Per Plate)	See Rating Chart	

TYPICAL OPERATION WITH CAPACITOR INPUT TO FILTER

AC Plate-to-Plate Supply Voltage (rms)	700	1000	volts
Filter Input Capacitor*	20	10	μF
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	—	volts
	125 mA	300	volts
At full-load current of	84 mA	—	volts
Voltage Regulation (Approx.):		500	volts
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	—	volts
	150 mA	245	volts
At full-load current of	125 mA	—	volts
Voltage Regulation (Approx.):		380	volts
Half-load to full-load current	25	15	volts

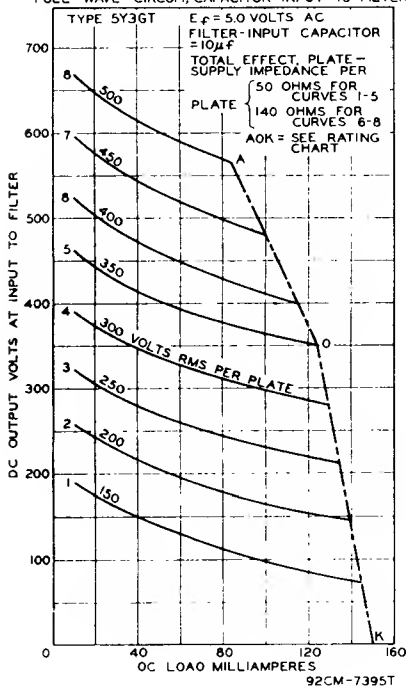
RATING CHART

* 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



Refer to chart at end of section.

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For replacement use type 5Y3GT.

Refer to chart at end of section.

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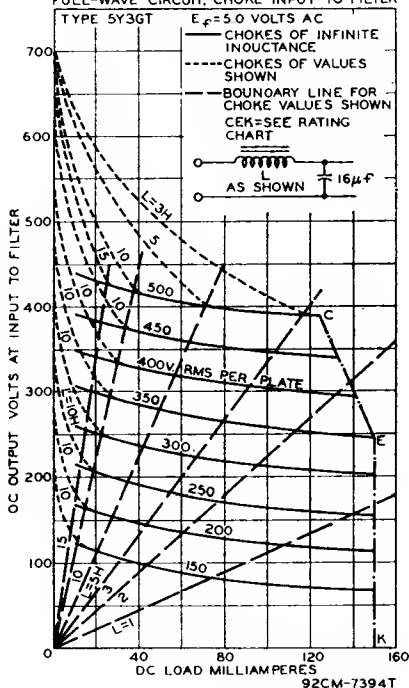
Refer to chart at end of section.

Refer to chart at end of section.

Refer to chart at end of section.

OPERATION CHARACTERISTICS

FULL-WAVE CIRCUIT, CHOKE INPUT TO FILTER



5Y4G

5Y4GA

5Y4GT

5Z3

5Z4

6A3

6A6

6A7

6A7S

6A8

6A8G

6A8GT