

FULL-WAVE VACUUM RECTIFIER

GENERAL DATA	7		
Electrical:	Ī		
Heater, for Unipotential Cathode: Voltage			
Mechanical:	ł		
Mounting Position	5" " 9		
() (8)	- 1		
FULL-WAVE RECTIFIER			
Maximum Ratings, Design-Center Values:			
PEAK INVERSE PLATE VOLTAGE 1250 max. volt PEAK PLATE CURRENT PER PLATE 375 max. n HOT-SWITCHING TRANSIENT PLATE CURRENT	ts na		
	rt ts		
Typical Operation with Capacitor-Input Filter: AC Plate-to-Plate Supply			
Voltage (RMS) 700 900 vol			
Filter-Input Capacitor 10 10	μf		
Effective Plate-Supply Impedance Per Plate . 50 105 ohr	ms		
DC Output Voltage at Input to Filter (Approx.):			
At half-load cur. of $\begin{cases} 62.5 \text{ ma.} & 395 - \text{vol} \end{cases}$			
\[\text{40 ma.} - 540 \text{vol} \] \[\text{At full-load cur. of } \begin{pmatrix} 125 ma. & 350 & - \text{vol} \end{pmatrix}			
80 ma 490 vol			
Voltage Regulation (Approx.): Half-load to full-load current . 45 50 vol	ts		
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.			

FEB. 1, 1950

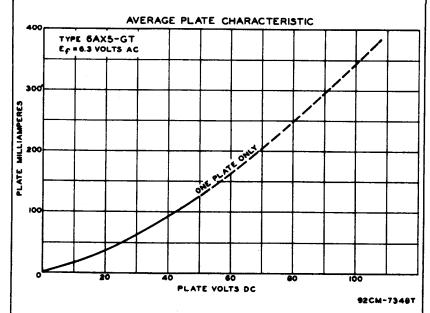
TENTATIVE DATA 1

6A75.GT



FULL-WAVE VACUUM RECTIFIER

Typical Operation with Choke-Input Filter:		
AC Plate-to-Plate Supply Voltage (RMS) 700	900	volts
Filter-Input Choke 10	10	henries
DC Output Voltage at Input to		
Filter (Approx.):		
At half-load cur. of \ 75 ma. 270	-	volts
[62.5 ma	365	volts
At full-load cur. of \$\int 150 ma. 250		volts
[125 ma	350	volts
Voltage Regulation (Approx.):		
Half-load to full-load Current 20	15	volts



RATING CHART and OPERATION CHARACTERISTICS

The Rating Chart presents graphically the relationships between maximum ac voltage input and maximum dc output current derived from the fundamental ratings for conditions of capacitor-input and choke-input filters. This graphical presentation gives the equipment designer considerable latitude in choice of operating conditions.

The Operation Characteristics for Full-Nave Circuit with Capacitor-Input Filter show not only the typical operating curves for such a circuit, but also show by means of boundary lines "ADK" the limiting current and voltage relationships presented on the Rating Chart.



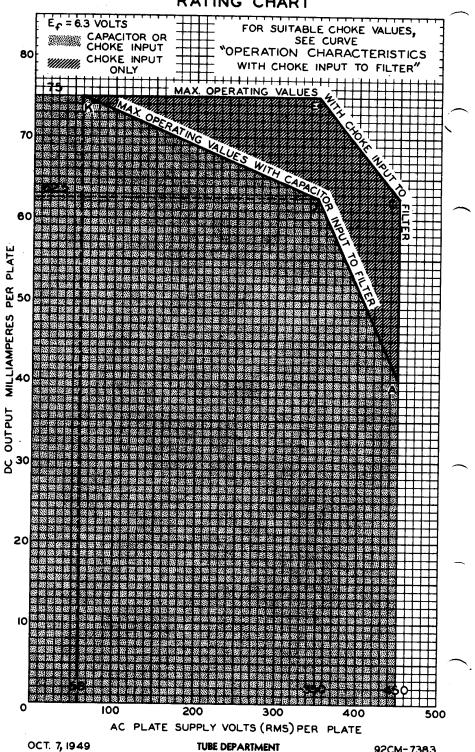
FULL-WAVE VACUUM RECTIFIER

The Operation Characteristics for Full-Wave Circuit with Choke-Input Filter show the typical operating curves for such a circuit. They not only show by means of boundary line "CEK" the limiting current and voltage relationships presented on the Rating Chart, but also give information as to the effect on regulation of various sizes of chokes. The solid-line curves show the dc voltage outputs which would be obtained if the filter chokes had infinite inductance. The long-dash lines radiating from the zero position are boundary lines for various sizes of chokes as indicated. The intersection of one of these lines with a solid-line curve indicates the point on the curve at which the choke no longer behaves as though it has infinite inductance. To the left of the choke boundary line, the regulation curves depart from the solid-line curves as shown by the representative short-dash regulation curves.





RATING CHART



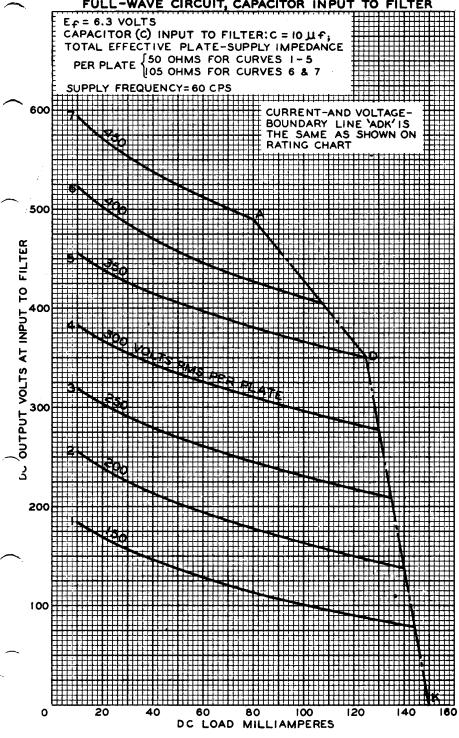
TUBE DEPARTMENT RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-7383



6AX5-GT

OPERATION CHARACTERISTICS
FULL-WAVE CIRCUIT, CAPACITOR INPUT TO FILTER



OCT. 7,1949

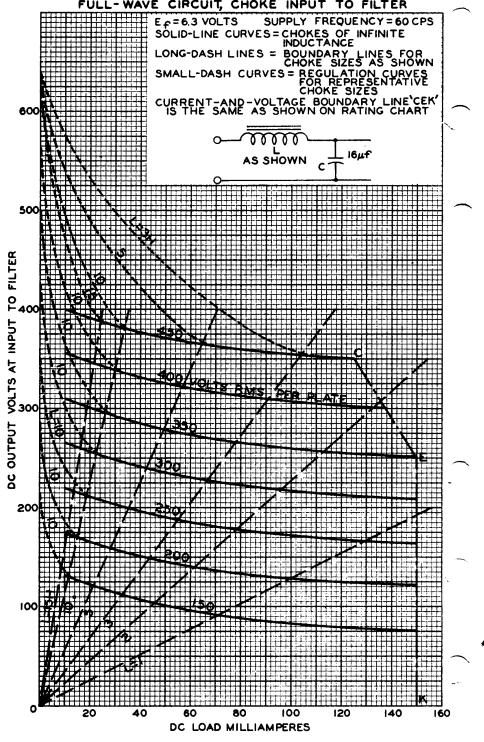
TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-7382

ento ci







OCT.11,1949

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-7379