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FULL-WAVE VACUUM RECTIFIER

GENERAL DATA						
Electrical:						
Filament, Coated: Voltage	olts amp					
Mechanical:	I					
Mounting Position Vertical, or Horizontal with	pins					
Maximum Diameter	/16" 3/4" /16" F-16 -Pin G-5T					
FULL-WAVE RECTIFIER						
Maximum Ratings, Design-Center Values:	Ĺ					
PEAK INVERSE PLATE VOLTAGE	ma hart					
Typical Operation with Capacitor-Input Filter:						
Filter-Input Capacitoro 10 10 Total Effect. Plate-Supply	olts µf ohms					
At Half-load Cur of \$112.5 ma 510 - vo	olts					
(225 ma	olts olts					
	olts					
Voltage Regulation, Half-Load	olts					
When a filter input capacitor larger than 10 μf is used, it may be necessary to increase the effective plate—supply impedance in order not to exceed the hot—switching transient plate current. —Indicates a change.						
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to Full-Load Current (Approx.) .

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Typical Operation with	Choke-Inpu	t F	ilter:		
AC Plate-to-Plate Supply Voltage (RMS) Filter-Input Choke DC Output Voltage at I to Filter (Approx	 nput			1100 10**	volts henries
At Half-Load Cur.of	∫ 135 ma. 112.5 ma.		365 -	- 460	volts volts
At Full-Load Cur.of	270 ma. 225 ma.		345	440	volts volts
Voltage Regulation, Ha	l f-Load				

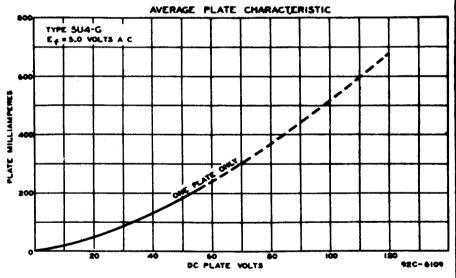
* This value is adequate to maintain optimum regulation in the region to the right of line L=10H on curve OPERATION CHARACTERISTICS with Choke—input to Filter, provided the load current is not less than 35 ma. For load currents less than 35 ma., a larger value of inductance is required for optimum regulation.

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volts

** 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 current is not less than 45 ma. For load currents less than 45 ma., a larger value of inductance is required for optimum regulation.



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-Wave 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.

-> Indicates a change.



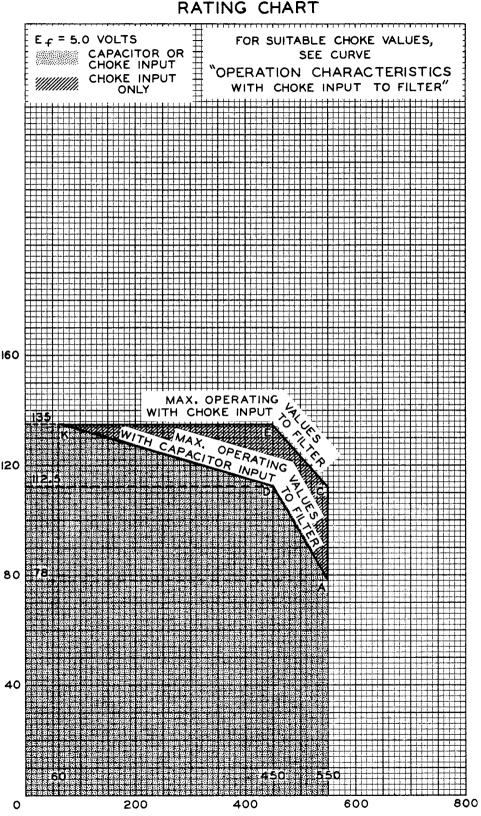
FULL-WAVE VACUUM RECTIFIER

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 in-The long-dash lines radiating from the zero ductance. position are boundary lines for various sizes of chokes The intersection of one of these lines with as indicated. a solid-line curve indicates the point on the curve at which the choke no longer behaves as though it had infinite 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.

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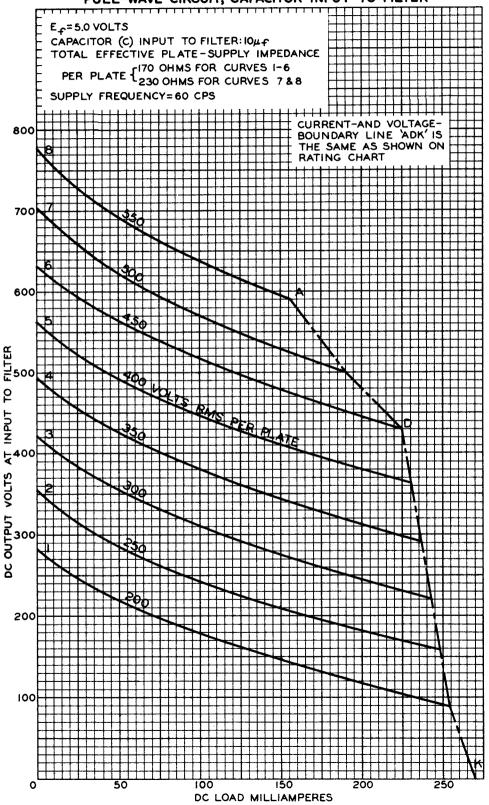


AC PLATE SUPPLY VOLTS (RMS) PER PLATE

DC OUTPUT MILLIAMPERES PER PLATE



OPERATION CHARACTERISTICS FULL-WAVE CIRCUIT, CAPACITOR INPUT TO FILTER



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