

**6BW4****FULL-WAVE VACUUM RECTIFIER**

9-PIN MINIATURE TYPE

6BW4**GENERAL DATA****Electrical:**

Heater, for Unipotential Cathode:

Voltage (AC or DC)	6.3	volts
Current	0.9	amp

Mechanical:

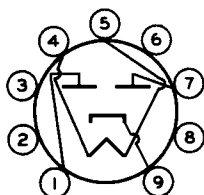
Operating Position	Any
Maximum Overall Length	2-5/8"
Maximum Seated Length	2-3/8"
Length, Base Seat to Bulb Top (Excluding tip)	2" $\pm$ 3/32"
Diameter	0.750" to 0.875"
Dimensional Outline	See General Section
Bulb	T6-1/2
Base	Small-Button Noval 9-Pin (JEDEC No.E9-1)
Basing Designation for BOTTOM VIEW	9DJ

Pin 1 - Plate No.2

Pin 2 - No Connection

Pin 3 - Same as Pin 2

Pin 4 - Heater



Pin 5 - Heater

Pin 6 - Same as Pin 2

Pin 7 - Plate No.1

Pin 8 - Same as Pin 2

Pin 9 - Cathode

FULL-WAVE RECTIFIER**Maximum Ratings, Design-Center Values:**

PEAK INVERSE PLATE VOLTAGE	1275 max.	volts
AC PLATE SUPPLY VOLTAGE PER PLATE (RMS) (See Rating Chart I)	450 max.	volts
STEADY-STATE PEAK PLATE CURRENT PER PLATE (See Rating Chart II)	350 max.	ma
TRANSIENT PEAK PLATE CURRENT PER PLATE (See Rating Chart III)	2 max.	amp
DC OUTPUT CURRENT	See Rating Chart I	
DC HEATER-CATHODE VOLTAGE: Heater negative with respect to cathode	450 max.	volts

Typical Operation:

	With capacitor input to filter	With choke input to filter	
AC Plate-to-Plate Supply Voltage (RMS)▲	650	900	volts
Filter-Input Capacitor.	40	-	μ f
Filter-Input Choke. . .	-	10	henries
Total Effective Plate Supply Resistance			
Per Plate	82	-	ohms
DC Output Voltage at Input to Filter	330	360	volts

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FULL-WAVE VACUUM RECTIFIER

	With capacitor input to filter	With choke input to filter	
DC Output Current . . .	100	100	ma

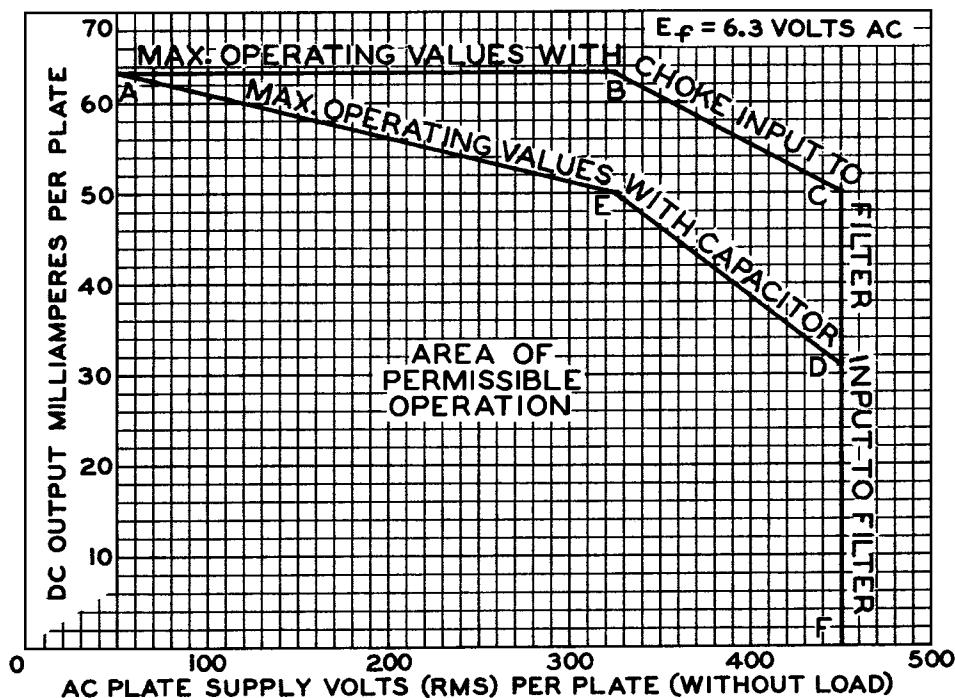
Characteristics:*Values are for Each Unit*

Tube-Voltage Drop for plate ma. = 100 40 volts

▲ AC plate supply voltage is measured without load.

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DATA

RATING CHART I



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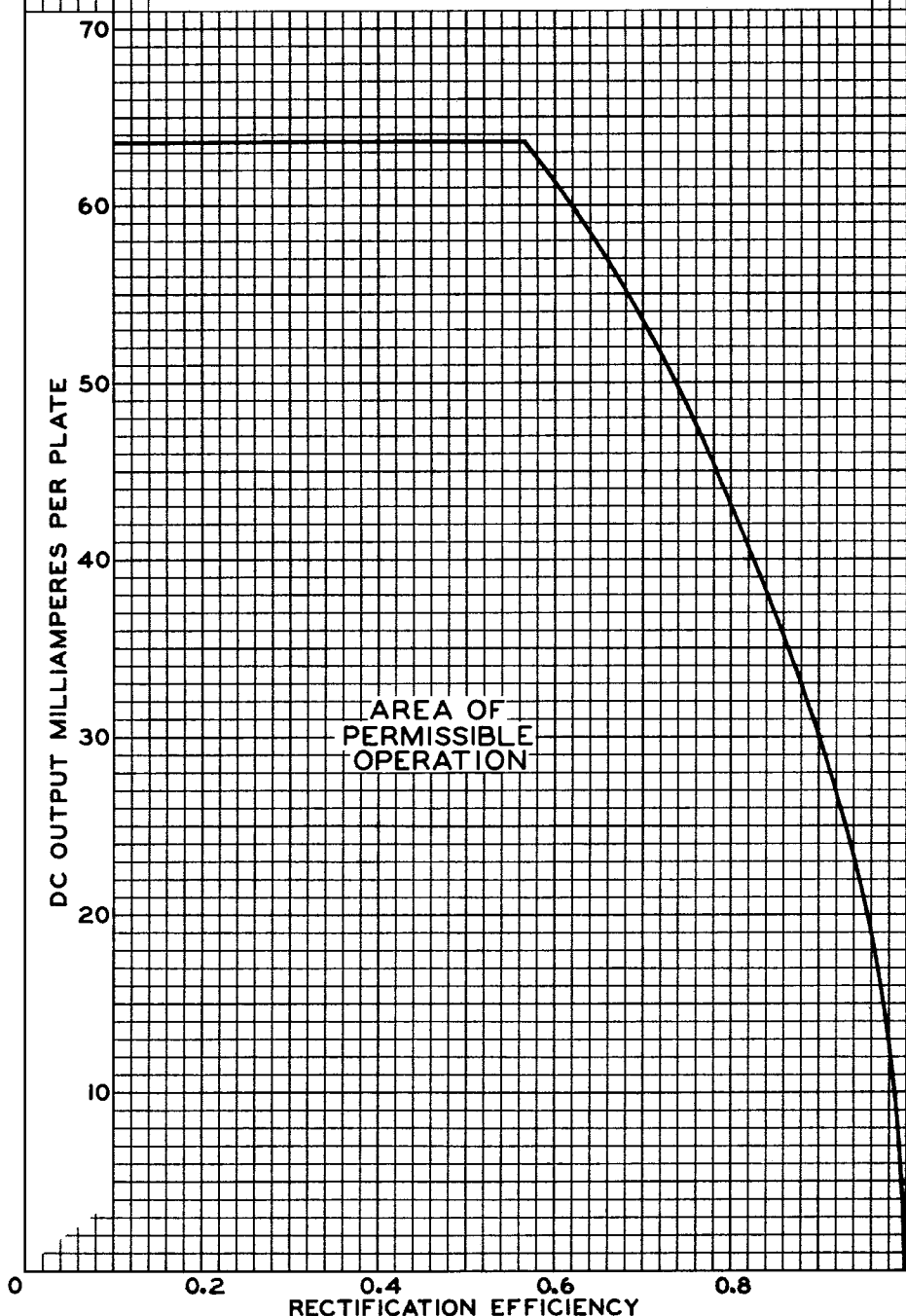
RATING CHART II CAPACITOR INPUT TO FILTER

$E_f = 6.3$ VOLTS AC

STEADY-STATE PEAK PLATE CURRENT PER
PLATE = 350 MA.

$$\text{RECTIFIER EFFICIENCY} = \frac{\bar{E}}{\sqrt{2} E_s}$$

WHERE $\bar{E}$ = DC OUTPUT VOLTS AT INPUT TO FILTER
 E_s = AC PLATE SUPPLY VOLTS (RMS) PER
PLATE (WITHOUT LOAD)

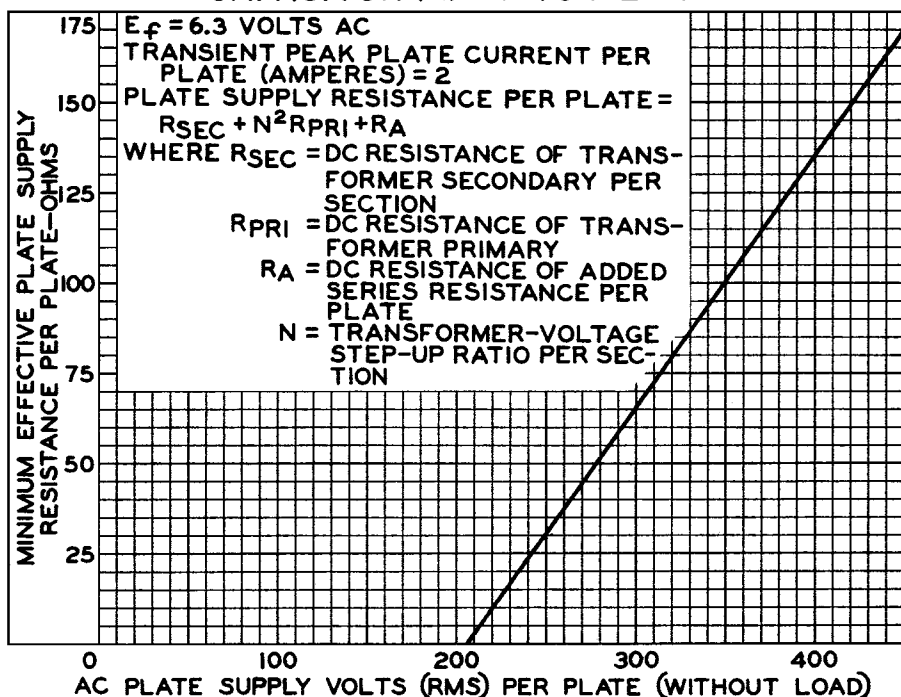


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RATING CHART III CAPACITOR INPUT TO FILTER



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