



50X6

# VACUUM RECTIFIER-DOUBLER

50X6

## GENERAL DATA

### Electrical:

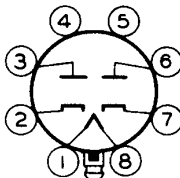
Heater, for Unipotential Cathodes:

Voltage . . . . .	50	ac or dc volts
Current . . . . .	0.150	amp

### Mechanical:

Mounting Position . . . . .	Any
Maximum Overall Length . . . . .	3-5/32"
Maximum Seated Length . . . . .	2-5/8"
Maximum Diameter . . . . .	1-3/16"
Bulb . . . . .	T-9
Base . . . . .	Lock-in 8-Pin
Basing Designation for BOTTOM VIEW . . . . .	7AJ

Pin 1 - Heater	Pin 5 - No Connection
Pin 2 - Cathode of Unit No.2	Pin 6 - Plate of Unit No.1
Pin 3 - Plate of Unit No.2	Pin 7 - Cathode of Unit No.1
Pin 4 - No Connection	Pin 8 - Heater Plug - Base Shell



## RECTIFIER OR DOUBLER

### Maximum Ratings, Design-Center Values:

PEAK INVERSE PLATE VOLTAGE . . . . .	700 max.	volts
PEAK PLATE CURRENT PER PLATE . . . . .	450 max.	ma
DC OUTPUT CURRENT PER PLATE . . . . .	75 max.	ma
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode. . .	350 max.	volts
Heater positive with respect to cathode. . .	350 max.	volts

### Typical Operation as Half-Wave Rectifier with Capacitor-Input to Filter:<sup>o</sup>

AC Plate-Supply Voltage per Plate (RMS) . . . . .	117	150	235	volts
Filter-Input Capacitor . . . . .	16	16	16	μf
Min. Total Effective Plate-Supply Impedance per Plate . . . . .	.15	40	100	ohms
DC Output Current per Plate . . . . .	75	75	75	ma

### Typical Operation as Voltage Doubler:

	<u>Half-Wave</u>	<u>Full-Wave</u>	
AC Plate-Supply Voltage per Plate (RMS) . . . . .	117	117	volts
Filter-Input Capacitor per Plate . . . . .	16	16	μf
Min. Total Effective Plate-Supply Impedance per Plate . . . . .	30	15	ohms
DC Output Current . . . . .	75	75	ma

<sup>o</sup> In half-wave rectifier service, the two units may be used separately or in parallel.

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TUBE DEPARTMENT  
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

DATA