



50X6

VACUUM RECTIFIER-DOUBLER

50X6

GENERAL DATA

Electrical:

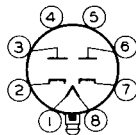
Heater, for Unipotential Cathodes:

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 2-Cathode of Unit No.2
 Pin 3-Plate of Unit No.2
 Pin 4-No Connection



Pin 5-No Connection
 Pin 6-Plate of Unit No.1
 Pin 7-Cathode of Unit No.1
 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:^o

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

^o In half-wave rectifier service, the two units may be used separately or in parallel.