



25W4-GT

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HALF-WAVE VACUUM RECTIFIER

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

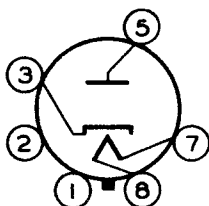
Voltage.	25	ac volts
Current.	0.3	amp

Mechanical:

Mounting Position.	Any
Maximum Overall Length	3-5/16"
Maximum Seated Length.	2-3/4"
Maximum Diameter	1-9/32"
Bulb	T-9
Base	Intermediate-Shell Octal 6-Pin
Basing Designation for BOTTOM VIEW	4CG

Pin 1-No
Connection

Pin 2-No
Connection



Pin 3-Cathode

Pin 5-Plate

Pin 7-Heater

Pin 8-Heater

DAMPER SERVICE

Maximum Ratings, Design-Center Values:

PEAK INVERSE PLATE VOLTAGE	2000*	max.	volts
PEAK PLATE CURRENT	600	max.	ma
DC PLATE CURRENT	125	max.	ma
PEAK HEATER-CATHODE VOLTAGE:			
Heater negative with respect to cathode.	450	max.	volts
Heater positive with respect to cathode.	100	max.	volts

RECTIFIER SERVICE

Maximum Ratings, Design-Center Values:

PEAK INVERSE PLATE VOLTAGE	1250	max.	volts
PEAK PLATE CURRENT	600	max.	ma
HOT-SWITCHING TRANSIENT PLATE CURRENT			
For duration of 0.2 second maximum . . .	3.5	max.	amp
DC OUTPUT CURRENT.	125	max.	ma
PEAK HEATER-CATHODE VOLTAGE:			
Heater negative with respect to cathode.	450	max.	volts
Heater positive with respect to cathode.	100	max.	volts

* This rating is applicable where the duty cycle of the voltage pulse does not exceed 15 percent of one horizontal scanning cycle. In a 525-line, 30-frame system, 15% of one horizontal scanning cycle is 10 microseconds.

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HALF-WAVE VACUUM RECTIFIER

Typical Operation:	Half-Wave Rectifier (One Tube)	Full-Wave Rectifier (Two Tubes)	
AC Plate-Supply Voltage (RMS) . .	350	-	volts
AC Plate-to-Plate Supply Voltage (RMS)	-	700	volts
Filter-Input Capacitor	20	20	μf
Minimum Total Effective Plate- Supply Impedance Per Plate.	145	145	ohms
DC Output Current.	125	250	ma
DC Output Voltage at Input to Filter (Approx.):			
At half-load cur.of { 62.5 ma.	390	-	volts
{ 125 ma.	-	395	volts
At full-load cur.of { 125 ma.	335	-	volts
{ 250 ma.	-	350	volts
Voltage Regulation (Approx.):			
Half-load to full-load current	55	45	volts

Curves shown under Type 6W4-GT also apply to the 25W4-GT