

Half-Wave Vacuum Rectifier

For Television Damper Service

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage (AC or DC)	6.3 $\pm$ 10%	volts
Current at 6.3 volts.	1.2	amp

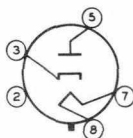
Direct Interelectrode Capacitances
(Approx.):^a

Plate to cathode and heater	5	$\mu\mu\text{f}$
Cathode to plate and heater	8.5	$\mu\mu\text{f}$
Heater to cathode	4	$\mu\mu\text{f}$

Mechanical:

Operating Position.	Any
Maximum Overall Length.	3-5/16"
Maximum Seated Length.	2-3/4"
Maximum Diameter.	1-9/32"
Dimensional Outline	See <i>General Section</i>
Bulb.	T9
Base.	Intermediate-Shell Octal 5-Pin, Arrangement 2 (JEDEC Group 1, No.B5-82)
Basing Designation for BOTTOM VIEW.	4CG

Pin 2 - Internal Connection—
Do Not Use^b
Pin 3 - Cathode



Pin 5 - Plate
Pin 7 - Heater
Pin 8 - Heater

DAMPER SERVICE

Maximum Ratings, Design-Maximum Values:

For operation in a 525-line, 30-frame system^c

PEAK INVERSE PLATE VOLTAGE ^d	5000	max.	volts
PEAK PLATE CURRENT.	1000	max.	ma
DC PLATE CURRENT.	165	max.	ma
PLATE DISSIPATION	5.3	max.	watts
PEAK HEATER-CATHODE VOLTAGE:			
Heater negative with respect to cathode.	5000 ^e	max.	volts
Heater positive with respect to cathode.	300 ^f	max.	volts

Characteristics, Instantaneous Test Condition:

Tube Voltage Drop for plate ma. = 250 . .	32	volts
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^a Without external shield.

^b Socket terminals 1,2,4 and 6 should not be used as tie points.

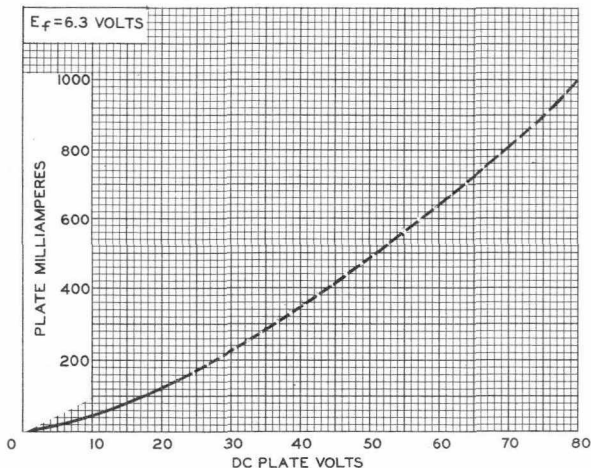
^c As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.



6AX4-GTB

- d This rating is applicable when the duty cycle of the voltage pulse does not exceed 15 per cent of one horizontal scanning cycle. In a 525-line, 30-frame system, 15 per cent of one horizontal scanning cycle is 10 microseconds.
- e The dc component must not exceed 900 volts.
- f The dc component must not exceed 100 volts.

AVERAGE PLATE CHARACTERISTIC



92CS-10850

