

## Half-Wave Vacuum Rectifier

For Television Damper Service

### GENERAL DATA

#### Electrical:

Heater, for Unipotential Cathode:

Voltage (AC or DC) . . . . .	6.3 ± 10%	volts
Current at 6.3 volts . . . . .	1.2	amp

Direct Interelectrode Capacitances

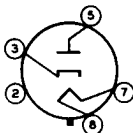
(Approx.):<sup>a</sup>

Plate to cathode and heater . . . . .	5	μf
Cathode to plate and heater . . . . .	8.5	μf
Heater to cathode . . . . .	4	μf

#### 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<sup>b</sup>  
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<sup>c</sup>

PEAK INVERSE PLATE VOLTAGE <sup>d</sup> . . . . .	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 <sup>e</sup>	max.	volts
Heater positive with respect to cathode . . . . .	300 <sup>f</sup>	max.	volts

#### Characteristics, Instantaneous Test Condition:

Tube Voltage Drop for plate ma. = 250 . . . . .	32	volts
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<sup>a</sup> Without external shield.

<sup>b</sup> Socket terminals 1, 2, 4 and 6 should not be used as tie points.

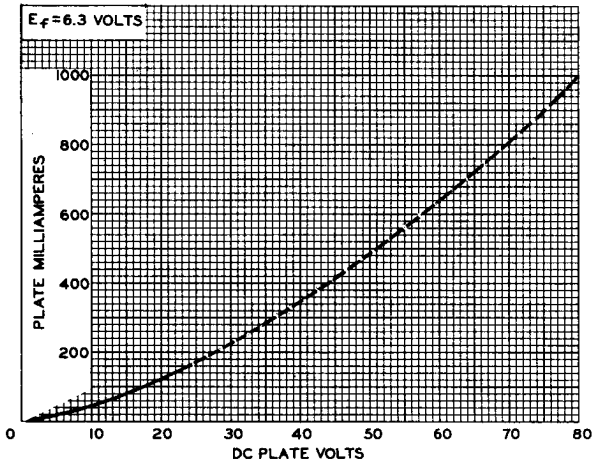
<sup>c</sup> As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.



# 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

