

# 6AX4-GT

## Half-Wave Vacuum Rectifier

For Television Damper Service

### GENERAL DATA

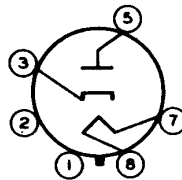
#### Electrical:

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),
	Intermediate-Shell Octal 5-Pin
	with External Barriers, Arrangement 2
	(JEDEC Group 1, No. B5-147),
	Short Intermediate-Shell Octal 5-Pin
	with External Barriers, Arrangement 2
	(JEDEC Group 1, No. B5-85), or
	Short Intermediate-Shell Octal 6-Pin
	with External Barriers, Arrangement 1
	(JEDEC Group 1, No. B6-60)
Basing Designation for BOTTOM VIEW. . . . .	4CG

Pin 1<sup>b</sup> - Same as Pin 2  
 Pin 2 - Internal Connection—Do Not Use<sup>c</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>d</sup>*

PEAK INVERSE PLATE VOLTAGE <sup>e</sup> . . . . .	4400 max.	volts
PEAK PLATE CURRENT. . . . .	825 max.	ma
DC PLATE CURRENT. . . . .	137 max.	ma
PLATE DISSIPATION . . . . .	5 max.	watts

← Indicates a change.



RADIO CORPORATION OF AMERICA  
 Electron Tube Division  
 Harrison, N. J.

DATA  
 3-61

# 6AX4-GT

## PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode. 4400<sup>f</sup> max. volts  
Heater positive with respect to cathode. 300<sup>g</sup> max. volts

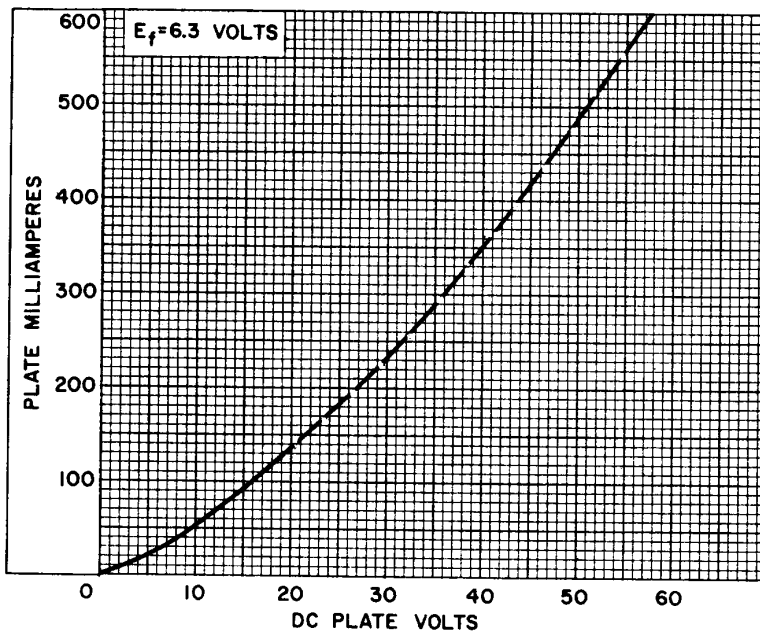
## → Characteristics, Instantaneous Test Condition:

Tube Voltage Drop for plate ma. = 250. . . 32 volts

- <sup>a</sup> Without external shield.
- <sup>b</sup> On the 5-pin bases, pin 1 as well as pins 4 and 6 is omitted.
- <sup>c</sup> Socket terminals 1, 2, 4 and 6 should not be used as tie points.
- <sup>d</sup> As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.
- <sup>e</sup> 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.
- <sup>f</sup> The dc component must not exceed 900 volts.
- <sup>g</sup> The dc component must not exceed 100 volts.

→ Indicates a change.

## AVERAGE PLATE CHARACTERISTIC



92CS-7829

