

6AX4-GTB

Half-Wave Vacuum Rectifier

For Television Damper Service

GENERAL DATA

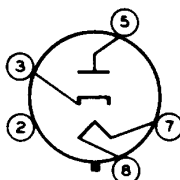
Electrical:

| | | |
|---|-----------|-------|
| Heater, for Unipotential Cathode: | | |
| Voltage (AC or DC) | 6.3 ± 10% | volts |
| Current at 6.3 volts | 1.2 | amp |
| Direct Interelectrode Capacitances (Approx.): ^a | | |
| 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^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 |
|---|----|-------|

^a without external shield.

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

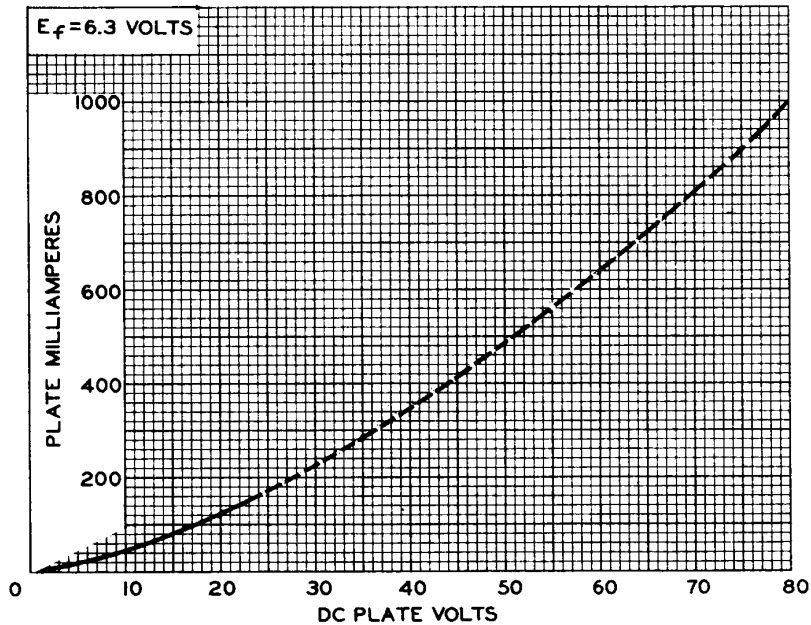
^c As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.



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- 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

