

Half-Wave Vacuum Rectifier

For Television Damper Service

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage (AC or DC) 6.3 volts

Current 1.2 amp

Direct Interelectrode Capacitances (Approx.):^a

Plate to cathode and heater 6 μf

Cathode to plate and heater 13 μf

Heater to cathode 7 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 *General Section*

Bulb T9

Bases (Alternates):

Intermediate-Shell Octal:

6-Pin, Arrangement 1 (JEDEC Group 1, No. B6-8)

5-Pin, Arrangement 2 (JEDEC Group 1, No. B5-82)

Short Intermediate-Shell Octal with External Barriers:

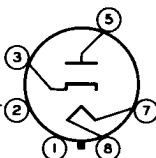
6-Pin, Arrangement 1 (JEDEC Group 1, No. B6-60)

5-Pin, Arrangement 2 (JEDEC Group 1, No. B5-85)

Basing Designation for BOTTOM VIEW 4CG

Pin 1^b - Same as
Pin 2

Pin 2 - Internal
Connection—
Do Not Use^c



Pin 3 - Cathode
Pin 5 - Plate
Pin 7 - Heater
Pin 8 - Heater

DAMPER SERVICE

Maximum Ratings, Design-Center Values Except as Noted:

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

PEAK INVERSE PLATE VOLTAGE

(Absolute maximum)^e 3850^f max. volts

PEAK PLATE CURRENT 750 max. ma

DC PLATE CURRENT 125 max. ma

PLATE DISSIPATION 3.5 max. watts

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode. 2300^g max. volts

Heater positive with respect to cathode. 300^h max. volts

← Indicates a change.



6W4GT

Characteristics, Instantaneous Value:

Tube Voltage Drop for plate ma. = 250. . . . 21 volts

- a Without external shield.
- b On the 5-pin bases, pin 1 as well as pins 4 and 6 is omitted.
- c Socket terminals 1, 2, 4 and 6 should not be used as tie points.
- d As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.
- e 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 micro-seconds.
- f Under no circumstances should this absolute-maximum value be exceeded.
- g The dc component (Absolute maximum) must not exceed 500 volts.
- h The dc component must not exceed 100 volts.

