

Half-Wave Vacuum Rectifier

GENERAL DATA

Electrical:

Heater Characteristics and Ratings (*Design-Maximum Values*):

Voltage (AC or DC) 6.3 ± 0.6 volts

Current at heater volts = 6.3 1.600 amp

Peak heater-cathode voltage:

Heater negative with respect to cathode^a 5500^b max. volts

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

Direct Interelectrode Capacitances (Approx.):^d

Plate to cathode and heater 8.5 μf

Cathode to plate and heater 11.5 μf

Heater to cathode 4 μf

Mechanical:

Operating Position Any

Type of Cathode Coated Unipotential

Maximum Overall Length 3-13/16"

Maximum Seated Length 3-1/4"

Maximum Diameter 1-9/32"

Bulb T9

Bases (Alternates):

Intermediate-Shell Octal with External Barriers:

5-Pin, Arrangement 2 (JEDEC Group 1, No.85-147)

Short Intermediate-Shell Octal with External Barriers:

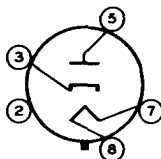
5-Pin, Arrangement 2 (JEDEC Group 1, No.85-85)

Basing Designation for BOTTOM VIEW 4CG

Pin 2 - Do Not Use^e

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^f

PEAK INVERSE PLATE VOLTAGE^a 5500 max. volts

PEAK PLATE CURRENT 1200 max. ma

DC PLATE CURRENT 190 max. ma

PLATE DISSIPATION 6.5 max. watts

Characteristics, *Instantaneous Value*:

Tube Voltage Drop for plate ma. = 250. 25 volts



6CQ4

- a 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.
- b The dc component must not exceed 900 volts.
- c The dc component must not exceed 100 volts.
- d without external shield.
- e Socket terminals 1, 2, 4, and 6 should not be used as tie points.
- f As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.

