



6AF3

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## HALF-WAVE VACUUM RECTIFIER

9-PIN MINIATURE TYPE

For television damper service

## GENERAL DATA

## Electrical:

Heater, for Unipotential Cathode:

Voltage (AC or DC) . . . . . 6.3  $\pm$  10% volts

Current . . . . . 1.2 amp

Direct Interelectrode Capacitances (Approx.):<sup>o</sup>Plate to cathode and heater . . . . . 6  $\mu$ fCathode to plate and heater . . . . . 9  $\mu$ fHeater to cathode . . . . . 2.8  $\mu$ f

## Mechanical:

Operating Position . . . . . Any

Maximum Overall Length . . . . . 3-9/32"

Maximum Seated Length . . . . . 2-7/8"  $\pm$  1/8"

Diameter . . . . . 0.750" to 0.875"

Dimensional Outline . . . . . See General Section

Bulb . . . . . T6-1/2

Cap . . . . . Skirted Miniature (JEDEC No.C1-2)

Base . . . . . Small-Button Noval 9-Pin (JEDEC No.E9-1)

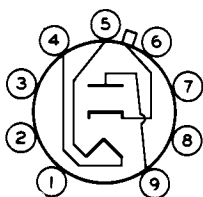
Basing Designation for BOTTOM VIEW . . . . . 9CB

Pin 1 - Internal  
Connection—  
Do Not Use $\blacklozenge$

Pin 2 - Same as Pin 1

Pin 3 - Same as Pin 1

Pin 4 - Heater



Pin 5 - Heater

Pin 6 - Same as Pin 1

Pin 7 - Same as Pin 1

Pin 8 - Same as Pin 1

Pin 9 - Plate

Cap - Cathode

## DAMPER SERVICE

## Maximum Ratings, Design-Maximum Values:

For operation in a 525-line, 30-frame system $\square$ PEAK INVERSE PLATE VOLTAGE . . . . . 4500 $\blacksquare$  max. volts

PEAK PLATE CURRENT . . . . . 750 max. ma

DC PLATE CURRENT . . . . . 185 max. ma

PLATE DISSIPATION . . . . . 6 max. watts

PEAK HEATER CATHODE VOLTAGE:

Heater negative with respect to cathode . 4500 $\ast$  max. voltsHeater positive with respect to cathode . 300 $\blacktriangle$  max. volts

BULB TEMPERATURE (At hottest point

on bulb surface) . . . . . 210 max.  $^{\circ}$ C

## Characteristics:

Tube-Voltage Drop for plate ma. = 340 . . . 30 volts

<sup>o</sup> Without external shield. $\blacklozenge$  Socket terminals 1,2,3,6,7, and 8 should not be used as tie points. $\square$  As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.

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## HALF-WAVE VACUUM RECTIFIER

- This rating is applicable where 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.
- \* The dc component must not exceed 1000 volts.
- ▲ The dc component must not exceed 100 volts.