



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.):^oPlate to cathode and heater 6 μ fCathode to plate and heater 9 μ fHeater to cathode 2.8 μ 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^oPEAK INVERSE PLATE VOLTAGE. 4500[■] 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^{*} max. voltsHeater positive with respect to cathode . 300[▲] max. volts

BULB TEMPERATURE (At hottest point

on bulb surface). 210 max. °C

Characteristics:

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

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

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- 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.