



6BL4

# 6BL4 HALF-WAVE VACUUM RECTIFIER

For Television Damper Service

## GENERAL DATA

### Electrical:

Heater, for Unipotential Cathode:

Voltage. . . . . 6.3 . . . . . ac or dc volts  
Current. . . . . 3.0 . . . . . amp

Direct Interelectrode Capacitances (Approx.):<sup>o</sup>

Plate to heater and cathode. . . . . 11.5  $\mu\text{f}$   
Cathode to heater and plate. . . . . 16  $\mu\text{f}$   
Heater to cathode. . . . . 5  $\mu\text{f}$

### Mechanical:

Mounting Position. . . . . Any

Maximum Overall Length. . . . . 4-5/8"

Maximum Seated Length. . . . . 4-1/16"

Maximum Diameter. . . . . 1-23/32"

Bulb . . . . . T-12

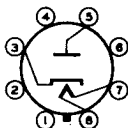
Base . . . . . Short Jumbo-Shell Octal 8-Pin with  
External Barriers (JETEC No. B8-71)

Basing Designation for BOTTOM VIEW . . . . . 8GB

Pin 1 - Internal  
Connection-  
Do Not Use

Pin 2 - Same As  
Pin 1

Pin 3 - Cathode



Pin 4 - Same as  
Pin 1

Pin 5 - Plate

Pin 6 - Same as  
Pin 1

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<sup>o</sup>

PEAK INVERSE PLATE VOLTAGE

(Absolute value)<sup>#</sup>. . . . . 4500<sup>o</sup> max. volts

PEAK PLATE CURRENT . . . . . 1200 max. ma

DC PLATE CURRENT . . . . . 200 max. ma

PLATE DISSIPATION. . . . . 8 max. ma

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to  
cathode (Absolute value). . . . . 4500<sup>o</sup> max. volts

Heater positive with  
respect to cathode. . . . . 300<sup>o</sup> max. volts

<sup>o</sup> Without external shield.<sup>o</sup> As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.<sup>#</sup> 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.<sup>o</sup> Under no circumstances should this absolute value be exceeded.<sup>o</sup> The dc component must not exceed 900 volts.<sup>o</sup> The dc component must not exceed 100 volts.

MAR. 1, 1955

TUBE DIVISION

TENTATIVE DATA

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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# HALF-WAVE VACUUM RECTIFIER

AVERAGE PLATE CHARACTERISTIC

