

# 6DW4B

## Half-Wave Vacuum Rectifier

### NOVAR TYPE

For Television Damper Service

#### Electrical:

##### Heater Characteristics and Ratings:

Voltage (AC or DC) . . . . .  $6.3 \pm 0.6$  volts  
 Current at heater volts = 6.3 . . . . . 1.200 amp

##### Maximum heater-cathode voltage:

Heater negative with respect to cathode:<sup>a</sup>  
 Peak . . . . . 5500 volts  
 DC component . . . . . 900 volts  
 Heater positive with respect to cathode:  
 Peak . . . . . 300 volts  
 DC component . . . . . 100 volts

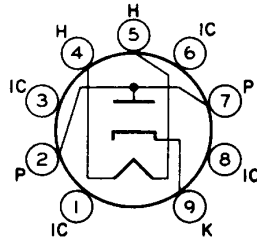
##### Direct Interelectrode Capacitances

(Approx.):<sup>b</sup>  
 Plate to cathode and heater . . . . . 6.5 pf  
 Cathode to plate and heater . . . . . 9.0 pf  
 Heater to cathode . . . . . 2.8 pf

#### Mechanical:

Operating Position . . . . . Any  
 Type of Cathode . . . . . Coated Unipotential  
 Maximum Overall Length . . . . . 3.005"  
 Seated Length . . . . . 2.375" to 2.625"  
 Diameter . . . . . 1.062" to 1.188"  
 Dimensional Outline (JEDEC 12-99) . . . . . See *General Section*  
 Bulb . . . . . T9  
 Base . . . . . Small-Button Novar 9-Pin with Exhaust Tip (JEDEC No. E9-89)  
 Basing Designation for BOTTOM VIEW . . . . . 9HP

Pin 1 - Do Not Use<sup>c</sup>  
 Pin 2 - Plate  
 Pin 3 - Do Not Use<sup>c</sup>  
 Pin 4 - Heater



Pin 5 - Heater  
 Pin 6 - Do Not Use<sup>c</sup>  
 Pin 7 - Plate  
 Pin 8 - Do Not Use<sup>c</sup>  
 Pin 9 - Cathode



# 6DW4B

---

## DAMPER SERVICE

### Maximum Ratings, Design-Maximum Values:

*For operation in a 525-line, 30-frame system<sup>d</sup>*

Peak Inverse Plate Voltage <sup>a</sup> . . . . .	5500	volts
Peak Plate Current . . . . .	1300	ma
DC Plate Current . . . . .	250	ma
Plate Dissipation . . . . .	8.5	watts

### Characteristics, Instantaneous Value:

Tube Voltage Drop for plate ma = 350 . . . . .	25	volts
------------------------------------------------	----	-------

<sup>a</sup> This rating is applicable when the duration 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>b</sup> without external shield.

<sup>c</sup> Socket terminals 1, 3, 6, and 8 should not be used as tie points. It is recommended that the socket clips for these pins be removed to reduce the possibility of arc-over and to minimize leakage.

<sup>d</sup> As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.

