

## Half-Wave Vacuum Rectifier

NOVAR TYPE  
For Television Damper Service

### GENERAL DATA

#### Electrical:

Heater Characteristics and Ratings:

Voltage (AC or DC) . . . . .	6.3 ± 0.6	volts
Current at heater volts = 6.3 . . . . .	1.200	amp
Peak heater-cathode voltage:		
Heater negative with respect to cathode <sup>a</sup> . . . . .	5000 <sup>b</sup> max.	volts
Heater positive with respect to cathode . . . . .	300 <sup>c</sup> max.	volts

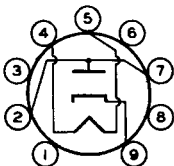
Direct Interelectrode Capacitances

(Approx.): <sup>d</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 . . . . .	3.410"
Maximum Seated Length . . . . .	3.030"
Length, Base Seat to Bulb Top (Excluding tip) . . . . .	2.510" to 2.690"
Diameter . . . . .	1.062" to 1.188"
Bulb . . . . .	T9
Socket . . . . .	Cinch Mfg. Co. 149 19 00 033, Industrial Electronic Hardware Corp. No. SO-0968-SL1, or equivalent
Base . . . . .	Small-Button Novar 9-Pin (JEDEC No. E9-75)
Basing Designation for BOTTOM VIEW . . . . .	9HP

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



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

### DAMPER SERVICE

Maximum Ratings, Design-Maximum Values:

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

PEAK INVERSE PLATE VOLTAGE <sup>a</sup> . . . . .	5000 max.	volts
PEAK PLATE CURRENT . . . . .	1300 max.	ma
DC PLATE CURRENT . . . . .	250 max.	ma
PLATE DISSIPATION . . . . .	8.5 max.	watts

← Indicates a change.

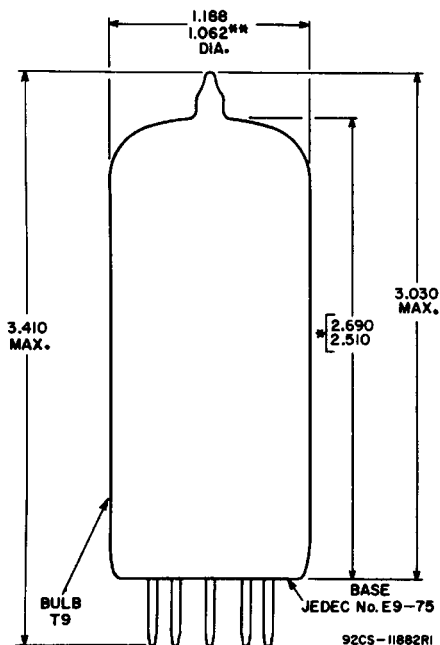


# 6DW4

## Characteristics, Instantaneous Value:

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

- a 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.
- 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, 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.
- f As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.



ALL DIMENSIONS IN INCHES

- \*\* APPLIES IN ZONE STARTING 0.375" FROM BASE SEAT.
- \* MEASURED FROM BASE SEAT TO BULB-TOP LINE AS DETERMINED BY A RING GAUGE OF 0.600" INSIDE DIAMETER.