

## Half-Wave Vacuum Rectifier

### NOVAR TYPE

For Television Damper Service

#### 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

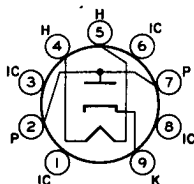
Direct Interelectrode Capacitances (Approx):<sup>d</sup>

P to (K,H) . . . . .	6.5	pf
K to (P,H) . . . . .	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 . . . . .	See <i>General Section</i>
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>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 . . . . .	1100 max.	ma
Average Plate Current . . . . .	200 max.	ma
Plate Dissipation . . . . .	6 max.	watts

Characteristics, Instantaneous Value:

Tube Voltage Drop for plate ma = 140 . . . . .	12	volts
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- a This rating is applicable where 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 for tie points. It is also recommended that 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.

