

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 |
| Maximum heater-cathode voltage: | | |
| Heater negative with respect to cathode: ^a | | |
| Peak | 5500 | volts |
| DC component | 900 | volts |
| Heater positive with respect to cathode: | | |
| Peak | 300 | volts |
| DC component | 100 | volts |

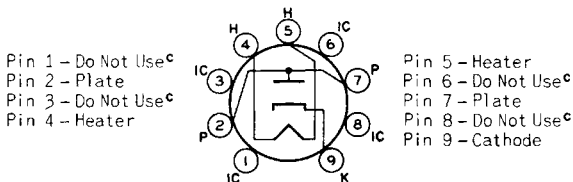
Direct Interelectrode Capacitances

| | | |
|---------------------------------------|-----|----|
| (Approx.): ^b | | |
| 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 <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



DAMPER SERVICE

Maximum Ratings, Design-Maximum Values:

For operation in a 525-line, 30-frame system^d

| | | |
|---|------|-------|
| Peak Inverse Plate Voltage ^a | 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 |
|--|----|-------|

^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 Without external shield.

^c 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.

^d As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.

