

Half-Wave Vacuum Rectifier

NOVAR TYPE

For Television Dampener 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

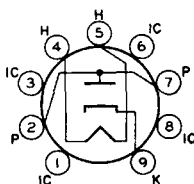
Plate to cathode and heater	6.5	pf
Cathode to plate and heater	9.0	pf
Heater to cathode	2.8	pf

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

Pin 1 - Do Not Use^c
Pin 2 - Plate
Pin 3 - Do Not Use^c
Pin 4 - Heater



Pin 5 - Heater
Pin 6 - Do Not Use^c
Pin 7 - Plate
Pin 8 - Do Not Use^c
Pin 9 - Cathode



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.

