

Half-Wave Vacuum Rectifier

NOVAR TYPE

For Television Dampner 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.	4.4	pf
Cathode to plate and heater.	6.0	pf
Heater to cathode.	1.8	pf

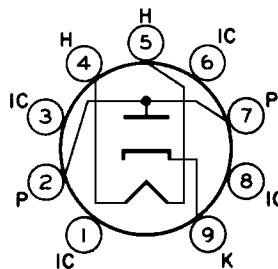
Mechanical:

Operating Position	Any
Type of Cathode.	Coated Unipotential
Maximum Overall Length	3.080"
Maximum Seated Length.	2.700"
Diameter	1.062" to 1.188"
Dimensional Outline.	See <i>General Section</i>
Bulb	T9

Bases (Alternates):

- Small-Button Novar 9-Pin (JEDEC No. E9-75)
- 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	5000	volts
Peak Plate Current	1000	ma
DC Plate Current	165	ma
Plate Dissipation	5.3	watts

Characteristics, Instantaneous Value:

Tube Voltage Drop for plate ma = 250	32	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 Without external shield.
- ^c 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.
- ^d As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations", Federal Communications Commission.

