

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

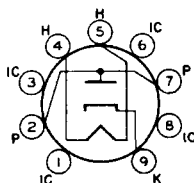
Pin 5-Heater

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 $r_a = 250$ 32 volts

^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.

