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 .......... 1.600 amp
Peak heater-cathode voltage:
Heater negative with respect to cathode^a .................. 5500\(^b\) max. volts
Heater positive with respect to cathode .................. 300\(^c\) max. volts

Direct interelectrode Capacitances (Approx):^d
P to (H,K) ................................ 6.5 pf
K to (P,H) ................................ 9.0 pf
Heater to cathode ................................ 2.8 pf

Mechanical:

Mounting 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 General Section
Bulb ............................................ T9
Socket ........................................ Novar 9-Contact
Base ......................................... Small-Button Novar 9-Pin with Exhaust
(JEDEC No.E9-B9)
Basing Designation for BOTTOM VIEW ................. 9HP

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Pin 1—Do Not Use\(^e\) Pin 5—Heater
Pin 2—Plate Pin 6—Do Not Use\(^e\)
Pin 3—Do Not Use\(^e\) Pin 7—Plate
Pin 4—Heater Pin 8—Do Not Use\(^e\)
Pin 9—Cathode

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DAMPER SERVICE

For operation in a 525-line, 30-frame system\(^f\)

Maximum Ratings, Design—Maximum Values:

Peak Inverse Plate Voltage\(^a\) .................. 5500 max. volts
Peak Plate Current .......................... 1100 max. ma
Average Plate Current ....................... 180 max. ma
Plate Dissipation ............................ 6.8 max. watts

Characteristic, Instantaneous Value:
Tube Voltage Drop for plate ma = 350 .......... 32 volts
a This rating is applicable when the duty cycle 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 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.

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