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
Peak heater-cathode voltage:
Heater negative with respect to cathodea .......... 5000b max. volts
Heater positive with respect to cathode .......... 300c max. volts
Direct Inter electrode Capacitances (Approx.):d
P to (K,H) .................................. 6.5 pf
K to (P,H) .................................. 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"
Dimensional Outline ................................ See General Section
Diameter .............................................. 1.062" to 1.188"
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 Usee
Pin 2 – Plate
Pin 3 – Do Not Usee
Pin 4 – Heater
Pin 5 – Heater
Pin 6 – Do Not Usee
Pin 7 – Plate
Pin 8 – Do Not Usee
Pin 9 – Cathode

DAMPER SERVICE

For operation in a 525-line, 30-frame systemf

Maximum Ratings, Design-Maximum Values:
Peak Inverse Plate Voltagea ..................... 5000 max. volts
Peak Plate Current ................................ 1100 max. ma
Average Plate Current ............................. 175 max. ma
Plate Dissipation .................................. 6.5 max. watts

Characteristic, Instantaneous Value:
Tube Voltage Drop for plate ma = 350 ...... 32 volts

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Electronic Components and Devices
Harrison, N. J.

DATA
10-64
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 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.