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 cathode .................. 5000^b max. volts
Heater positive with respect to cathode .................. 300^c max. volts
Direct Interelectrode 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"
Diameter ....................................... 1.062" to 1.188"
Dimensional Outline ............................ See General Section
Bulb .......................................... Small-Button Novar 9-Pin with Exhaust Tip (JEDEC No.E9-89)
Base .......................................... T9
Basing Designation for BOTTOM VIEW ......... 9HP

Pin 1 – Do Not Use^e
Pin 2 – Plate
Pin 3 – Do Not Use^e
Pin 4 – Heater
Pin 5 – Heater
Pin 6 – Do Not Use^e
Pin 7 – Plate
Pin 8 – Do Not Use^e
Pin 9 – Cathode

DAMPER SERVICE

Maximum Ratings, Design-Maximum Values:
For operation in a 525-line, 30-frame system^f
Peak Inverse Plate Voltage^a ............... 5000 max. volts
Peak Plate Current ........................ 1100 max. ma
Average Plate Current ..................... 200 max. ma
Plate Dissipation .......................... 6 max. watts

Characteristics, Instantaneous Value:
Tube Voltage Drop for plate ma = 140 .... 12 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. 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 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.