Half-Wave Vacuum Rectifier

NOVAR TYPE
For Television Damper Service

GENERAL DATA

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 max. volts
Heater positive with
respect to cathode 300 max. volts
Direct Interelectrode Capacitances (Approx.).
Plate to cathode and heater 6.5 pf
Cathode to plate and heater 9.0 pf
Heater to cathode 2.8 pf

Mechanical:
Operating Position ................. Any
Type of Cathode Coated Unipotential
Maximum Overall Length .............. 3.410”
Maximum Seated Length ............... 3.030”
Length, Base Seat to Bulb Tip (Excluding tip) ... 2.510” to 2.690”
Diameter .................................. 1.062” to 1.188”
Bulb ...................................... T9
Socket Cinch Mfg. Co. 149 19 00 033, Industrial Electronic Hardware Corp. No. SO-0968-SL1, or equivalent
Base Small-Button Novar 9-Pin (JEDEC No.E9-75)
Basing Designation for BOTTOM VIEW 9HP

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

DAMPER SERVICE

Maximum Ratings, Design-Maximum Values:
For operation in a 525-line, 30-frame system

PEAK INVERSE PLATE VOLTAGE 5000 max. volts
PEAK PLATE CURRENT 1300 max. ma
DC PLATE CURRENT 250 max. ma
PLATE DISSIPATION 8.5 max. watts

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Indicates a change.
Characteristics, Instantaneous Value:
Tube Voltage Drop for plate ma. = 350 . . . . 25 volts

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 90 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.

**APPLIES IN ZONE STARTING 0.375" FROM BASE SEAT.
* MEASURED FROM BASE SEAT TO BULB-TOP LINE AS DETERMINED BY A RING GAUGE OF 0.600" INSIDE DIAMETER.