



7H7

## REMOTE-CUTOFF PENTODE

## GENERAL DATA

## Electrical:

Heater, for Unipotential Cathode:

Voltage. . . . . 6.3<sup>□</sup> . . . . . ac or dc voltsCurrent. . . . . 0.3<sup>□□</sup> . . . . . ampDirect Interelectrode Capacitances:<sup>○</sup>

Grid No.1 to Plate . . . 0.007 max. . . . . μf

Input. . . . . 8 . . . . . μf

Output . . . . . 7 . . . . . μf

<sup>○</sup> With external shield connected to cathode.

## Mechanical:

Mounting Position. . . . . Any

Maximum Overall Length . . . . . 2-25/32"

Maximum Seated Length. . . . . 2-1/4"

Maximum Diameter . . . . . 1-3/16"

Bulb . . . . . T-9

Base . . . . . Lock-in 8-Pin

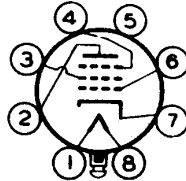
Basing Designation for BOTTOM VIEW . . . . . 8V

Pin 1 - Heater

Pin 2 - Plate

Pin 3 - Grid No.2

Pin 4 - Grid No.3

Pin 5 - Internal  
Shield

Pin 6 - Grid No.1

Pin 7 - Cathode

Pin 8 - Heater

Plug - Base  
ShellAMPLIFIER - Class A<sub>1</sub>

## Maximum Ratings, Design-Center Values:

PLATE VOLTAGE. . . . . 300 max. volts

GRID-No.2 (SCREEN) VOLTAGE . . . . . 150 max. volts

GRID-No.2 SUPPLY VOLTAGE . . . . . 300 max. volts

GRID-No.1 (CONTROL-GRID) VOLTAGE:

Positive bias value. . . . . 0 max. volts

PLATE DISSIPATION. . . . . 2.5 max. watts

GRID-No.2 DISSIPATION. . . . . 0.5 max. watt

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode . . . 90 max. volts ←

Heater positive with respect to cathode . . . 90 max. volts ←

## Typical Operation and Characteristics:

Plate Voltage. . . . . 100 250 volts

Grid No.3 . . . . . Connected to cathode at socket

Internal Shield . . . . . Connected to cathode at socket

Grid-No.2 Voltage . . . . . 100 150 volts

Grid-No.1 Voltage . . . . . -1 - volt

Cathode-Bias Resistor. . . . . 80 180 ohms

(continued on next page)

<sup>□</sup> Nominal voltage = 7.0 volts.<sup>□□</sup> Nominal current = 0.32 ampere.

← indicates a change.

DEC. 30, 1947

TUBE DEPARTMENT  
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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|                                                                         |      |                 |
|-------------------------------------------------------------------------|------|-----------------|
| Plate Resistance (Approx.) . . . . .                                    | 0.25 | 0.8 megohm      |
| Transconductance . . . . .                                              | 4800 | 4200 $\mu$ mhos |
| Grid-No.1 Bias (Approx.) for<br>transconductance of 35 $\mu$ mhos . . . | -12  | -19 volts       |
| Plate Current. . . . .                                                  | 8.2  | 10 ma           |
| Grid-No.2 Current. . . . .                                              | 3.3  | 3.2 ma          |

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