



7AD7

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POWER PENTODE

GENERAL DATA**Electrical:**

Heater, for Unipotential Cathode:

Voltage 6.3[□] ac or dc voltsCurrent 0.6^{□□} ampDirect Interelectrode Capacitances:[○]Grid No.1 to Plate. . . 0.030 max. μf Input 11.5 μf Output. 7.5 μf [○] With external shield connected to cathode.**Mechanical:**

Mounting Position Any

Maximum Overall Length. 3-5/32"

Maximum Seated Length 2-5/8"

Maximum Diameter. 1-3/16"

Bulb. T-9

Base. Lock-In 8-Pin

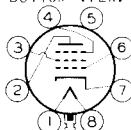
Basing Designation for BOTTOM VIEW. 8V

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

Shell

AMPLIFIER—Class A₁**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

PLATE DISSIPATION 10 max. watts

GRID-No.2 DISSIPATION 1.2 max. watts

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

Positive bias value 0 max. volts

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 300 volts

Grid No.3 (Suppressor). Connected to cathode at socket

Grid-No.2 Voltage 150 volts

Cathode-Bias Resistor 68 ohms

Plate Resistance (Approx.). 0.3 megohm

Transconductance. 9500 μmhos

Plate Current 28 ma

Grid-No.2 Current 7 ma

[□] Nominal voltage = 7.0 volts.^{□□} Nominal current = 0.16 ampere.

MAY 20, 1949

TUBE DEPARTMENT

TENTATIVE DATA

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY