



7G7

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SHARP-CUTOFF PENTODE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage. 6.3[□] ac or dc volts

Current. 0.45^{□□} amp

Direct Interelectrode Capacitances:[○]

Grid No.1 to Plate 0.007 max. μf

Input. 9 μf

Output 7 μf

[○] 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

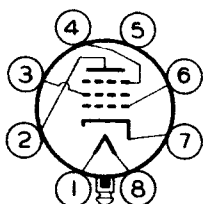
Pin 5 - Internal
Shield

Pin 6 - Grid No.1

Pin 7 - Cathode

Pin 8 - Heater

Plug - Base
Shell



AMPLIFIER - Class A₁

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE. 300 max. volts ←

GRID-No.2 (SCREEN) VOLTAGE 100 max. volts ←

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

PLATE DISSIPATION. 1.5 max. watts ←

GRID-No.2 DISSIPATION. 0.3 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. 250 volts

Grid No.3 Connected to cathode at socket

Internal Shield Connected to cathode at socket

Grid-No.2 Voltage. 100 volts

Grid-No.1 Voltage. -2 volts

Cathode-Bias Resistor. 250 ohms

Plate Resistance (Approx.) 0.8 megohm

Transconductance 4500 μmhos

(continued on next page)

□ Nominal voltage = 7.0 volts.

□□ Nominal current = 0.48 ampere.

← Indicates a change.

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→ Grid-No.1 Bias (Approx.) for			
Cathode Current Cutoff	-7	..	volts
Plate Current.	6	..	ma
Grid-No.2 Current.	2	..	ma

→ Indicates a change.

DEC. 30, 1947

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

DATA