



7G7

7G7

SHARP-CUTOFF PENTODE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage. 6.3[□] ac or dc voltsCurrent. 0.45^{□□} ampDirect 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

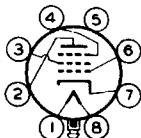
Basing Designation for BOTTOM VIEW 8V

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
ShellAMPLIFIER - 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.

7G7



7G7

SHARP-CUTOFF PENTODE

→ 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