

7B7



7B7

REMOTE-CUTOFF PENTODE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage 6.3[□] ac or dc voltsCurrent 0.15^{□□} ampDirect Interelectrode Capacitances:[○]

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

Input 5.0 μμf

Output 6.0 μμf

○ 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

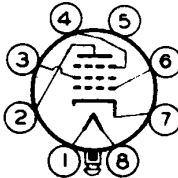
Pin 2 - Plate

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

PLATE DISSIPATION 2.25 max. watts

GRID-No.2 DISSIPATION 0.25 max. watt

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 100 250 . . volts

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

Grid-No.2 Voltage 100 100 . . volts

Grid-No.1 Voltage -3 -3 . . volts

Plate Resistance (Approx.) 0.3 0.75 . . megohm

Transconductance 1675 1750 . . μmhos

Grid-No.1 Bias (Approx.) for

transconductance of 10 μmhos -40 -40 . . volts

Plate Current 8.2 8.5 . . ma.

Grid-No.2 Current 1.8 1.7 . . ma.

□ Nominal voltage = 7.0 volts.

□□ Nominal current = 0.160 ampere.

JUNE 20, 1947

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

DATA