

**6DK6****6DK6****SHARP-CUTOFF PENTODE**

7-PIN MINIATURE TYPE

DATA**Electrical:**

Heater, for Unipotential Cathode:

Voltage. 6.3 ac or dc volts

Current. 0.3 amp

Direct Interelectrode Capacitances:⁰Grid No.1 to plate 0.02 max. μmf Grid No.1 to cathode, grid No.3 & internal shield, grid No.2, and heater 6.3 μmf Plate to cathode, grid No.3 & internal shield, grid No.2, and heater. 1.9 μmf **Characteristics, Class A₁ Amplifier:**

Plate-Supply Voltage 125 volts

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

Grid-No.2-Supply Voltage 125 volts

Cathode Resistor 56 ohms

Plate Resistance (Approx.) 0.35 megohm

Transconductance 9800 μmhos

Plate Current. 12 ma

Grid-No.2 Current. 3.8 ma

Grid-No.1 Voltage (Approx.) for plate $\mu\text{a} = 20$ -6.5 volts**Mechanical:**

Operating Position Any

Maximum Overall Length 2-1/8"

Maximum Seated Length. 1-7/8"

Length, Base Seat to Bulb Top (Excluding tip). 1-1/2" $\pm$ 3/32"

Diameter 0.650" to 0.750"

Dimensional Outline. *See General Section*

Bulb T5-1/2

Base Small-Button Miniature 7-Pin (JEDEC No.E7-1)

Basing Designation for BOTTOM VIEW 7CM

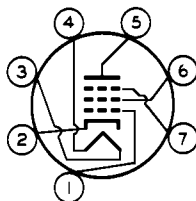
Pin 1-Grid No.1

Pin 2-Cathode

Pin 3-Heater

Pin 4-Heater

Pin 5-Plate



Pin 6-Grid No.2

Pin 7-Grid No.3,
Internal
Shield**AMPLIFIER — Class A₁****Maximum Ratings, Design-Maximum Values:**

PLATE VOLTAGE. 330 max. volts

GRID-No.3 (SUPPRESSOR-GRID) VOLTAGE. 0 max. volts

GRID-No.2 (SCREEN-GRID) SUPPLY VOLTAGE 330 max. volts

⁰: See next page.

6DK6



6DK6

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GRID-No.2 VOLTAGE. *See Grid-No.2 Input
Rating Chart at front of Receiving Tube Section*

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

Positive-bias value. 0 max. volts

GRID-No.2 INPUT:

For grid-No.2 voltages up to

165 volts. 0.55 max. watt

For grid-No.2 voltages between

165 and 330 volts. *See Grid-No.2 Input
Rating Chart at front of Receiving Tube Section*

PLATE DISSIPATION. 2.3 max. watts

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with

respect to cathode 200 max. volts

Heater positive with

respect to cathode 200[▲]max. volts

Maximum Circuit Values:

Grid-No.1-Circuit Resistance:

For fixed-bias operation 0.25 max. megohm

For cathode-bias operation 1 max. megohm

[○] Without external shield.

[▲] The dc component must not exceed 100 volts.



6DK6

6DK6

AVERAGE CHARACTERISTICS

$E_f = 6.3$ VOLTS
GRID N°3 CONNECTED TO
CATHODE AT SOCKET.
GRID-N°2 VOLTS = 125



PLATE (I_b) OR GRID-N°2 (I_{C2}) MILLIAMPERES

ELECTRON TUBE DIVISION

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-985IR1

6DK6



6DK6

AVERAGE CHARACTERISTICS

