

6JD6

Sharp-Cutoff Pentode

9-PIN MINIATURE TYPE FRAME-GRID CONSTRUCTION

For Use as High-Gain Intermediate-Frequency-Amplifier
Tube in Television Receivers. No External Shield Re-
quired. Cutoff Characteristic Approaching Semiremote.

GENERAL DATA

Electrical:

Heater Characteristics and Ratings:

Voltage (AC or DC). 6.3 ± 0.6 volts
Current at heater volts = 6.3 0.300 amp

Peak heater-cathode voltage:

Heater negative with
respect to cathode. 200 max. volts

Heater positive with
respect to cathode. 200^a max. volts

Direct Interelectrode Capacitances:^b

Grid No.1 to plate. 0.019 max. pf

Grid No.1 to cathode, grid No.3 &
internal shield, grid No.2,
and heater. 8.2 pf

Plate to cathode, grid No.3 &
internal shield, grid No.2,
and heater. 3.0 pf

Characteristics, Class A₁ Amplifier:

Plate Supply Voltage. 125 volts

Grid-No.3 Voltage 0 volts

Grid-No.2 Supply Voltage. 125 volts

Grid-No.1 Supply Voltage. 0 volts

Cathode Resistor. 56 ohms

Plate Resistance (Approx.). 160000 ohms

Transconductance. 14000 μ mhos

Plate Current 15 ma

Grid-No.2 Current 4 ma

Grid-No.1 Voltage (Approx.) for
transconductance (μ mhos) = 600. . . . -4.5 volts

Mechanical:

Operating Position. Any

Type of Cathode Coated Unipotential

Maximum Overall Length. 2-3/16"

Maximum Seated Length. 1-15/16"

Length, Base Seat to Bulb Top

(Excluding tip) 1-9/16" $\pm$ 3/32"

Diameter. 0.750" to 0.875"

Dimensional Outline See *General Section*

Bulb. T6-1/2

Base. Small-Button Noval 9-Pin (JEDEC No.E9-1)



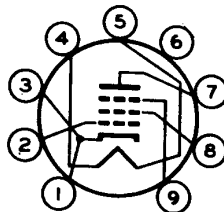
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Basing Designation for BOTTOM VIEW. 9PM

Pin 1 -Cathode
Pin 2 -Grid No.1
Pin 3 -Cathode
Pin 4 -Heater
Pin 5 -Heater
Pin 6 -No Internal
Connection



Pin 7 -Plate
Pin 8 -Grid No.2
Pin 9 -Grid No.3
Internal
Shield

AMPLIFIER — Class A₁

Maximum Ratings, Design-Maximum Values:

PLATE VOLTAGE 330 max. volts
GRID-NO.3 (SUPPRESSOR-GRID) VOLTAGE:
Positive value. 0 max. volts
GRID-NO.2 (SCREEN-GRID) SUPPLY VOLTAGE. . . 330 max. volts
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 0.6 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 2.5 max. watts

Maximum Circuit Values:

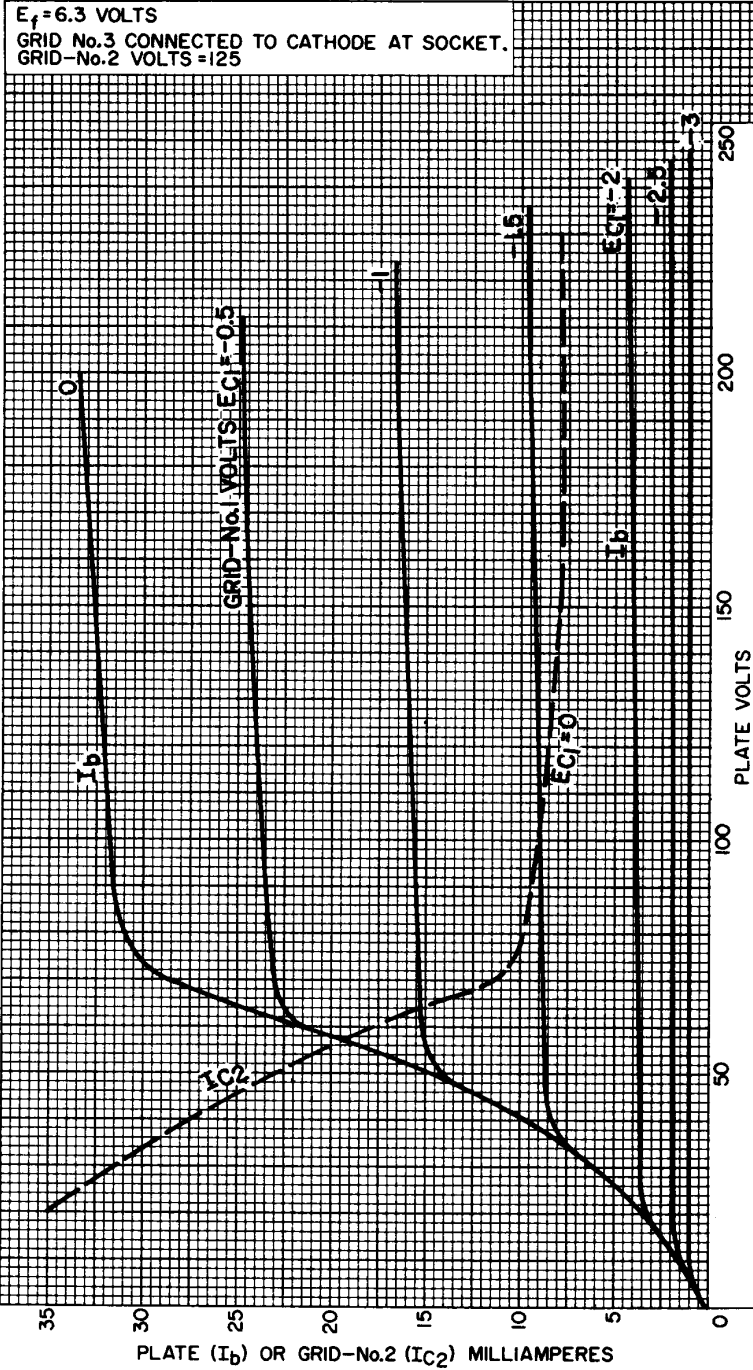
Grid-No.1-Circuit Resistance:
For fixed-bias operation. 0.25 max. megohm
For cathode-bias operation. 1 max. megohm

- ^a The dc component must not exceed 100 volts.
^b without external shield.



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AVERAGE CHARACTERISTICS



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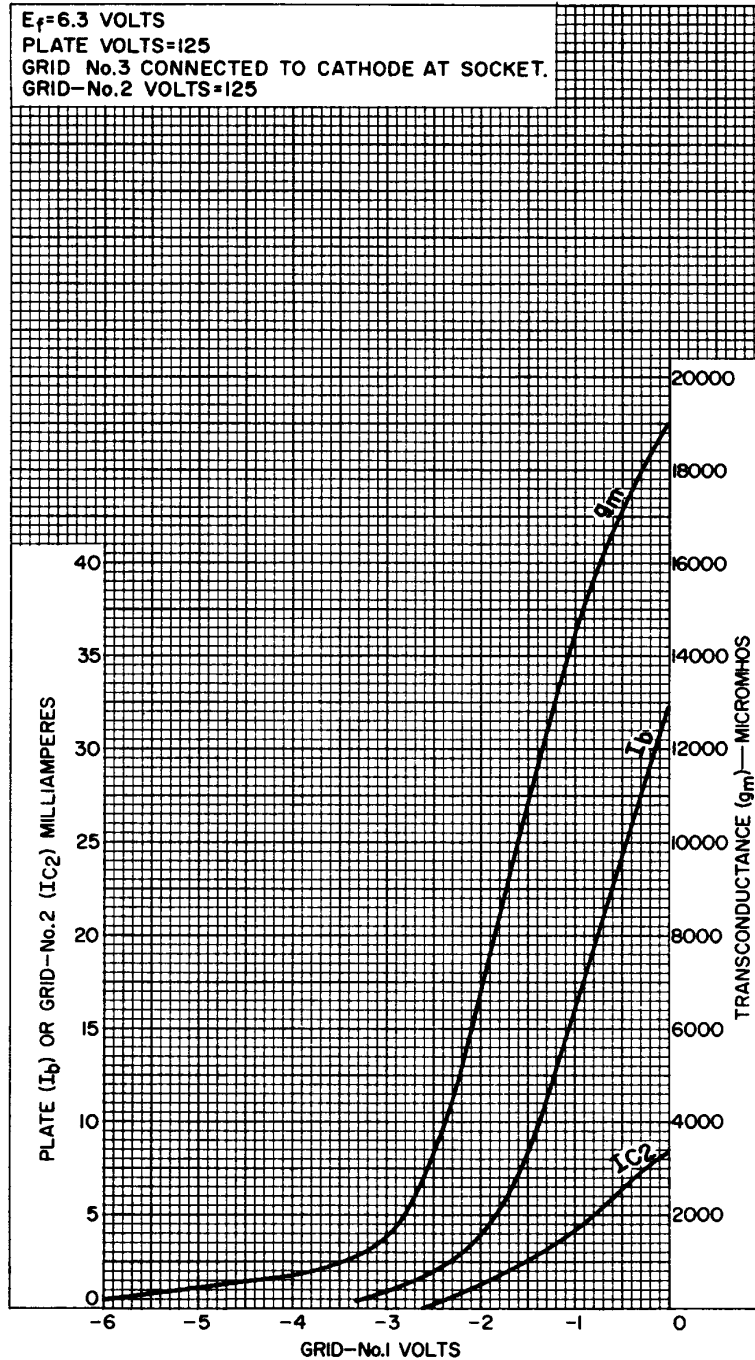


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AVERAGE CHARACTERISTICS



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