



6DK6

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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:⁰

Grid 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

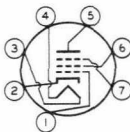
Characteristics, Class A₁ Amplifier:

Plate-Supply Voltage	125	volts
Grid-No.3.	<i>Connected to cathode at socket</i>	
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.	<i>See General Section</i>
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.

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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

⁰ Without external shield.

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

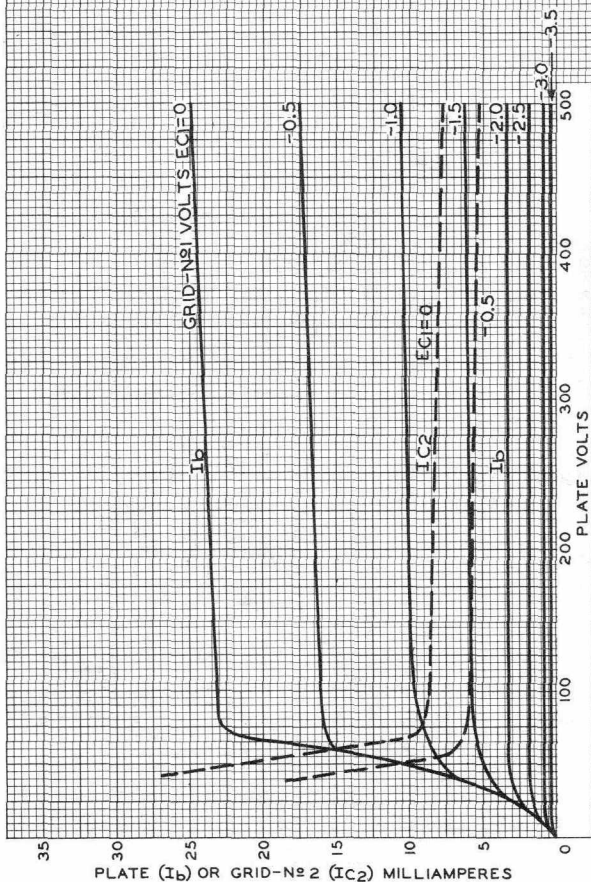


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AVERAGE CHARACTERISTICS

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



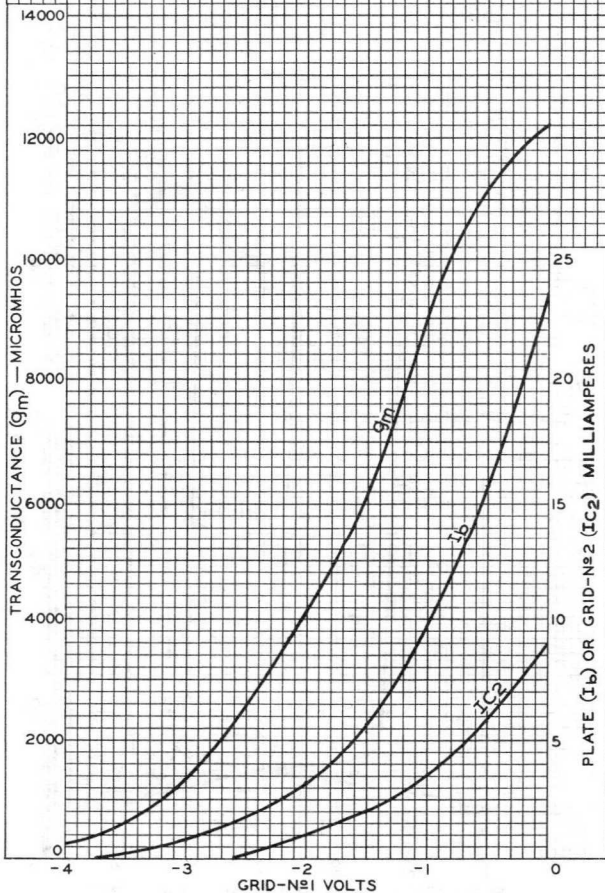
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GRID-N° 2 VOLTS = 125



ELECTRON TUBE DIVISION

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-9852