



6CY5

6CY5 SHARP-CUTOFF TETRODE

7-PIN MINIATURE TYPE

For use as rf amplifier in VHF tuners of television receivers

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage (AC or DC) $6.3 \pm 10\%$ volts ←

Current 0.2 amp

Direct Interelectrode Capacitances (Approx.):⁰Grid No.1 to plate. 0.03 μmf Grid No.1 to cathode & internal shield,
grid No.2, and heater 4.5 μmf Plate to cathode & internal shield,
grid No.2, and heater 3 μmf

Characteristics, Class A₁ Amplifier:

Plate Voltage 125 volts

Grid-No.2 Voltage 80 volts

Grid-No.1 Voltage -1 volt

Plate Resistance (Approx.) 0.1 megohm

Transconductance. 8000 μmhos

Plate Current 10 ma

Grid-No.2 Current 1.5 ma

Grid-No.1 Voltage (Approx.) for
plate $\mu_a = 20$ -6 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)

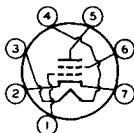
Basing Designation for BOTTOM VIEW. 7EW

Pin 1-Grid No.1

Pin 2-Cathode,
Internal
Shield

Pin 3-Heater

Pin 4-Heater



Pin 5-Plate

Pin 6-Grid No.2

Pin 7-Cathode,
Internal
Shield

AMPLIFIER — Class A₁

Maximum Ratings, Design-Maximum Values:

PLATE VOLTAGE. 180 max. volts ←

GRID-No.2 (SCREEN-GRID) SUPPLY VOLTAGE . . . 180 max. volts

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

← Indicates a change.

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

Positive-bias value. 0 max. volts

CATHODE CURRENT. 20 max. ma

GRID-No.2 INPUT:

For grid-No.2 voltages up to 90 volts. . . 0.5 max. watt

For grid-No.2 voltages between 90 and
180 volts. *See Grid-No.2 Input Rating Chart*
at front of Receiving Tube Section

PLATE DISSIPATION. 2 max. watts

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode. . 100 max. volts

Heater positive with respect to cathode. . 100 max. volts

Maximum Circuit Values:

Grid-No.1-Circuit Resistance 0.5 max. megohm

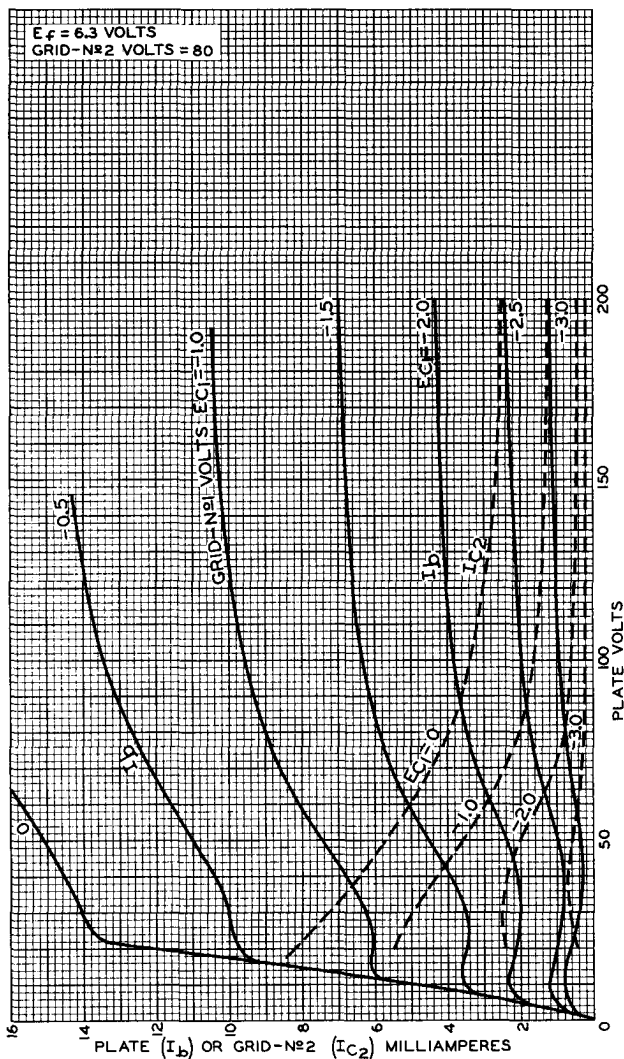
⁰ With external shield JEDEC No.316 connected to cathode.



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AVERAGE CHARACTERISTICS



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