



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 ± 10%	volts ←
Current	0.2	amp
Direct Interelectrode Capacitances (Approx.): ⁰		
Grid No.1 to plate.	0.03	μf
Grid No.1 to cathode & internal shield, grid No.2, and heater	4.5	μf
Plate to cathode & internal shield, grid No.2, and heater	3	μf

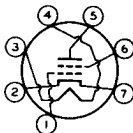
Characteristics, Class A₁ Amplifier:

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 μ _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) Diameter.	1-1/2" ± 3/32" 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

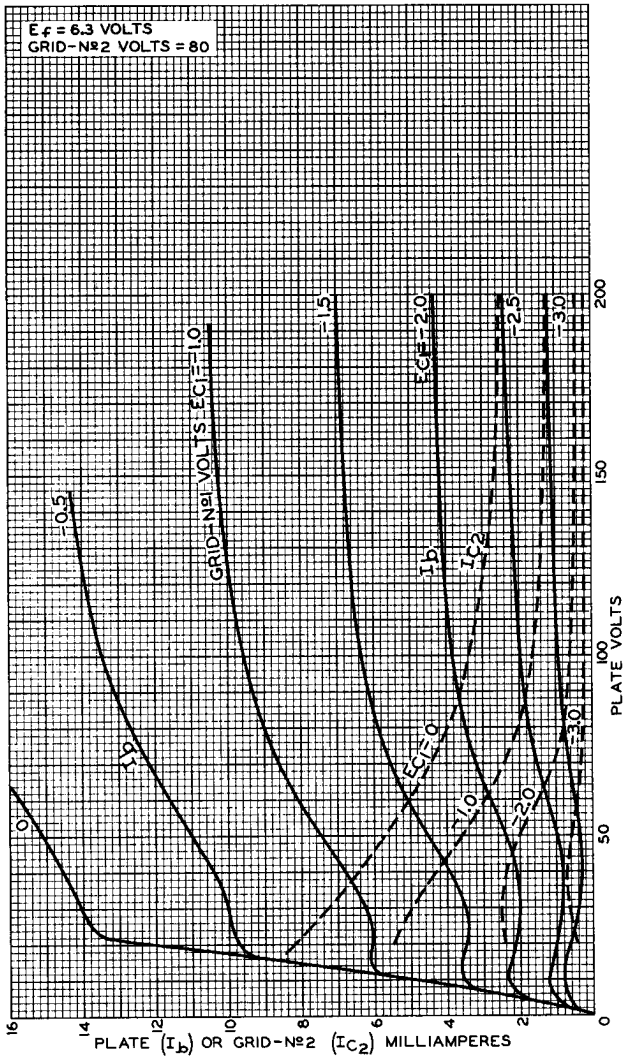
^o With external shield JEDEC No.316 connected to cathode.



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AVERAGE CHARACTERISTICS



ELECTRON TUBE DIVISION

92CM-9518

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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