



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	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	

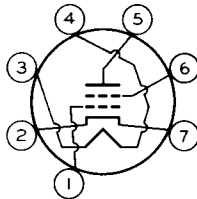
Characteristics, Class A₁ Amplifier:

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" ± 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

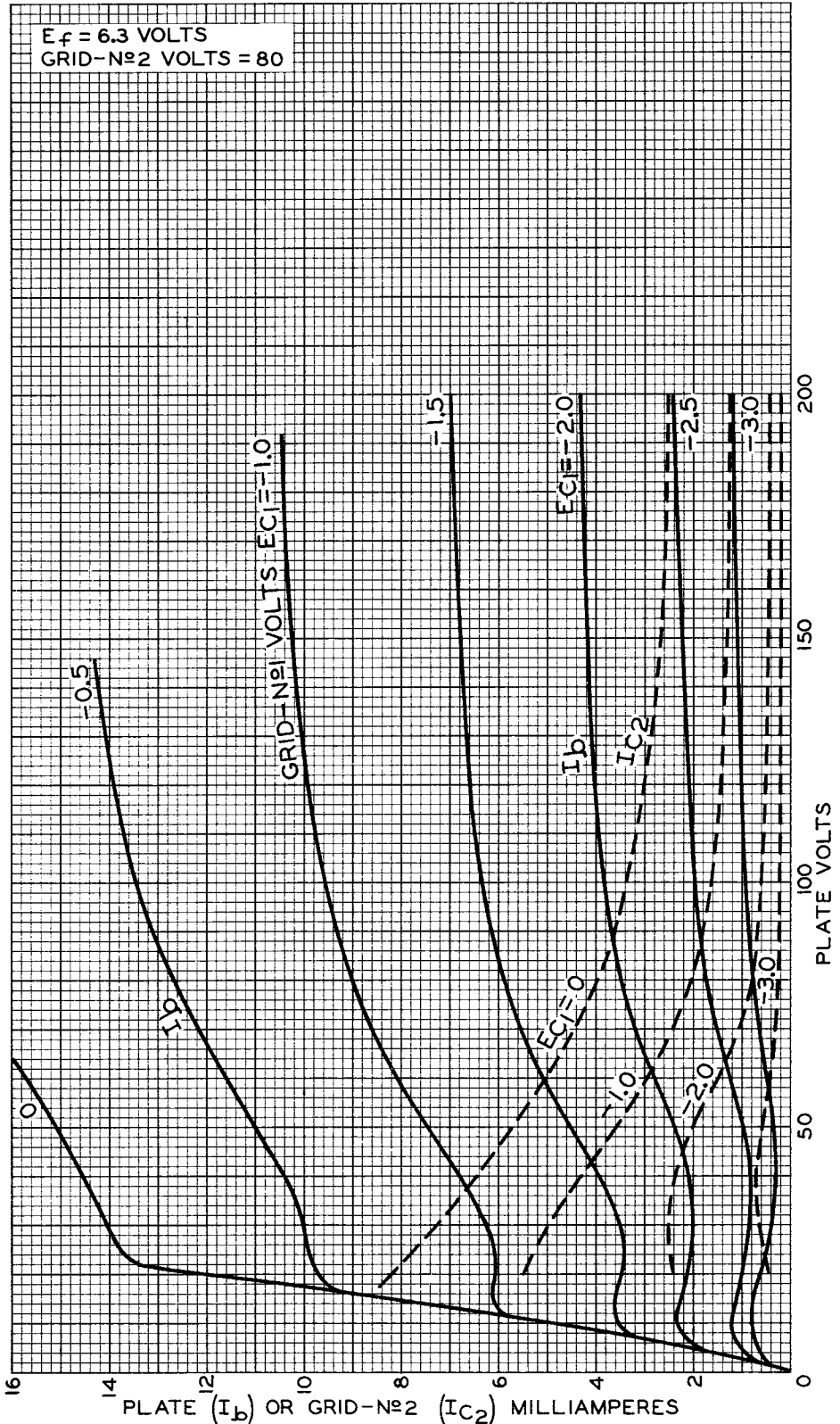
⁰ With external shield JEDEC No.316 connected to cathode.



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AVERAGE CHARACTERISTICS



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