



6CY5

SHARP-CUTOFF TETRODE

7-PIN MINIATURE TYPE

6CY5

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	

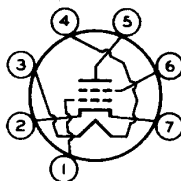
Characteristics, Class A₁ Amplifier:

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 μa = 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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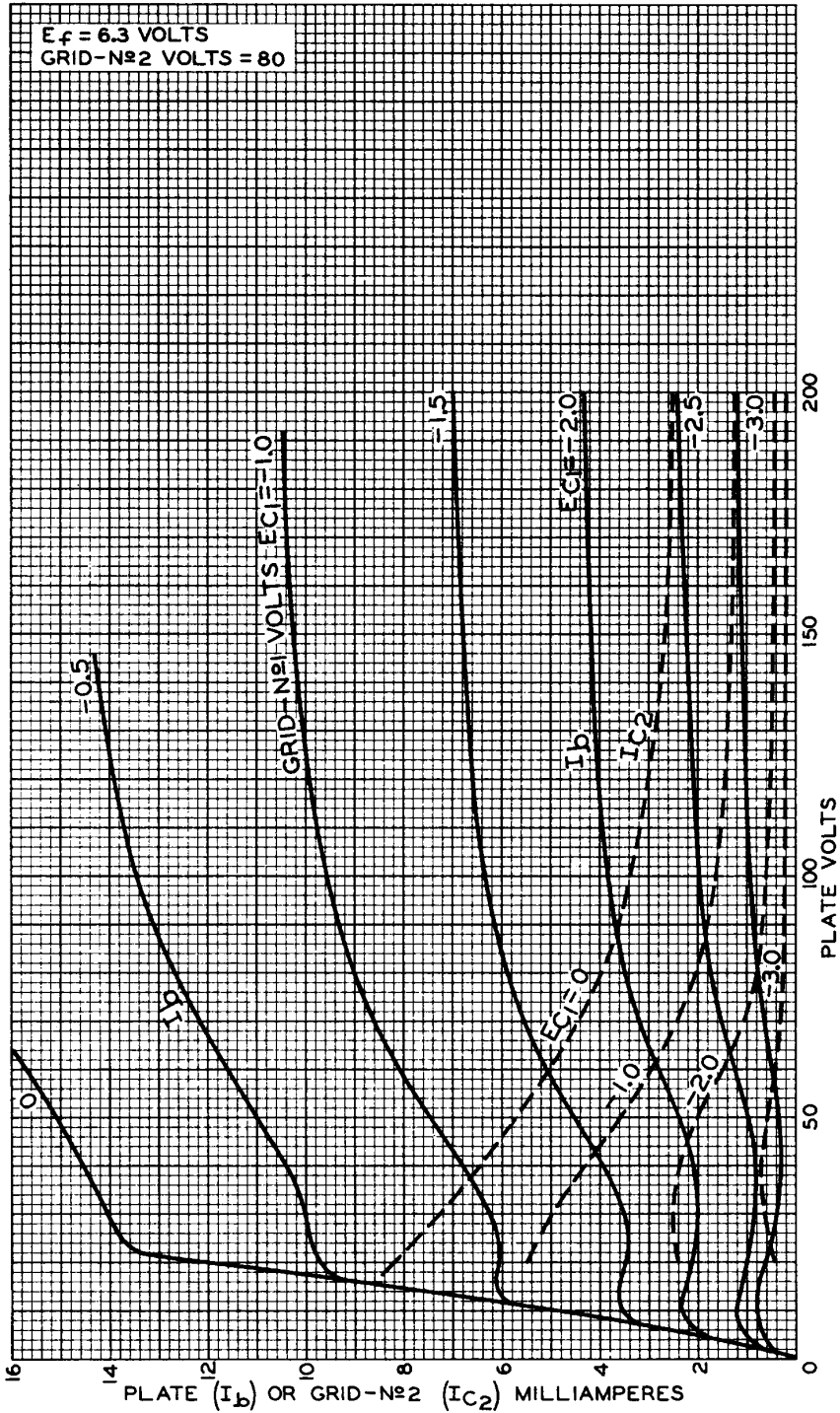
GRID-No.1 (CONTROL-GRID) VOLTAGE:
Positive-bias value. 0 max. volts
CATHODE CURRENT. 20 max. ma
GRID-No.2 INPUT:
For grid-No.2 voltages up to 90 volts. . . 0.5 max. watt
For grid-No.2 voltages between 90 and
180 volts. *See Grid-No.2 Input Rating Chart
at front of Receiving Tube Section*
PLATE DISSIPATION. 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
^o With external shield JEDEC No.316 connected to cathode.



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AVERAGE CHARACTERISTICS



ELECTRON TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-9518

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