



6CB6

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# SHARP-CUTOFF PENTODE

MINIATURE TYPE

## GENERAL DATA

### Electrical:

Heater, for Unipotential Cathode:

Voltage. . . . . 6.3 . . . . . ac or dc volts

Current. . . . . 0.3 . . . . . amp

Direct Interelectrode Capacitances:

	Without External Shield	With External Shield <sup>o</sup>	
Grid No.1 to plate . . . .	0.020 max.	0.010 max.	$\mu\text{f}$
Grid No.1 to cathode, grid No.3 & internal shield, grid No.2, and heater . . . . .	6.5	6.5	$\mu\text{f}$
Plate to cathode, grid No.3 & internal shield, grid No.2, and heater . . . . .	1.9	3.0	$\mu\text{f}$

### Mechanical:

Mounting 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"

Maximum Diameter . . . . . 3-4"

Bulb . . . . . T-5-1/2

Base . . . . . Small-Button Miniature 7-Pin (JETEC No. E7-1)

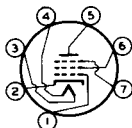
Basing Designation for BOTTOM VIEW . . . . . 7CM

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 A<sub>1</sub>

### Maximum Ratings, Design-Center Values:

PLATE VOLTAGE. . . . . 300 max. volts

GRID-No.2 (SCREEN) SUPPLY VOLTAGE. . . . . 300 max. volts

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

PLATE DISSIPATION. . . . . 2 max. watts

GRID-No.2 INPUT:

For grid-No.2 voltages up to 150 volts . . 0.5 max. watt

For grid-No.2 voltages between 150  
and 300 volts. . . . . See Grid-No.2 Input Rating Chart  
at front of Receiving Tube Section

<sup>o</sup> with external shield JETEC No.316 connected to cathode.

← Indicates a change.

MAR. 1, 1955

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## SHARP-CUTOFF PENTODE

→ PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode .	200 max.	volts
Heater positive with respect to cathode .	200 <sup>▲</sup> max.	volts

**Typical Operation and Characteristics:**

Plate Voltage . . . . .	200	volts
Grid No.3 (Suppressor). . . . .	<i>Connected to cathode at socket</i>	
Grid-No.2 Voltage . . . . .	150	volts
Cathode-Bias Resistor . . . . .	180	ohms
Plate Resistance (Approx.) . . . . .	0.6	megohm
Transconductance . . . . .	6200	$\mu$ mhos
Grid-No.1 Voltage (Approx.) for plate current of 10 $\mu$ amp. . . . .	-8	volts
Plate Current . . . . .	9.5	ma
Grid-No.2 Current . . . . .	2.8	ma

▲ The dc component must not exceed 100 volts.

→ Indicates a change.

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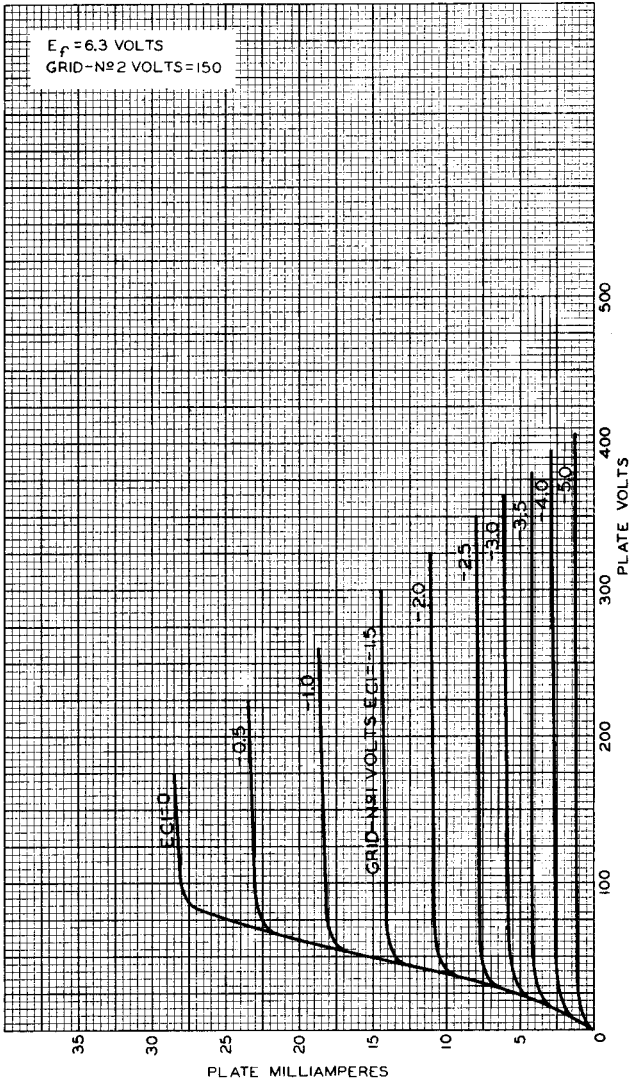
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### AVERAGE PLATE CHARACTERISTICS

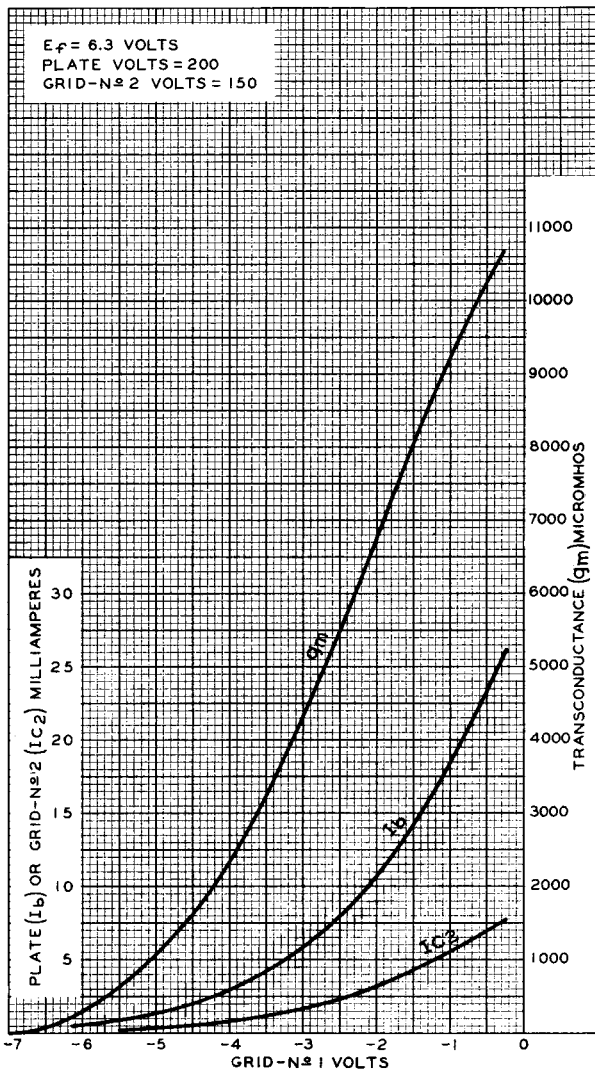


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## AVERAGE CHARACTERISTICS



SEPT. 28, 1949

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