



6BH6

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SHARP-CUTOFF PENTODE

7-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage. 6.3 ac or dc volts

Current. 0.15 amp

Direct Interelectrode Capacitances:

	Without External Shield	With External Shield ⁰	
Grid No.1 to plate	0.0035 max.	0.0035 max.	μf
Grid No.1 to cathode, grid No.3 & internal shield, grid No.2, and heater	5.4	5.4	μf
Plate to cathode, grid No.3 & internal shield, grid No.2, and heater	4.4	4.4	μf

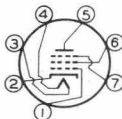
Characteristics, Class A₁ Amplifier:

Plate Voltage.	100	250	volts
Grid No.3 (Suppressor)	Connected to cathode at socket		
Grid-No.2 Voltage.	100	150	volts
Grid-No.1 Voltage.	-1	-1	volt
Plate Resistance (Approx.)	0.7	1.4	megohm
Transconductance	3400	4600	μmhos
Plate Current.	3.6	7.4	ma
Grid-No.2 Current.	1.4	2.9	ma
Grid-No.1 Voltage (Approx.) for plate current of 10 μamp	-5	-7.7	volts

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" $\pm$ 3-3/32"
Maximum Diameter	3/4"
Dimensional Outline.	See General Section
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

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

← Indicates a change.

SEPT. 1, 1955

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SHARP-CUTOFF PENTODE

AMPLIFIER - Class A₁

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

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

Negative bias value. 50 max. volts

Positive bias value. 0 max. volts

PLATE DISSIPATION. 3 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

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode. . 90 max. volts

Heater positive with respect to cathode. . 90 max. volts

→ Indicates a change.

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DATA

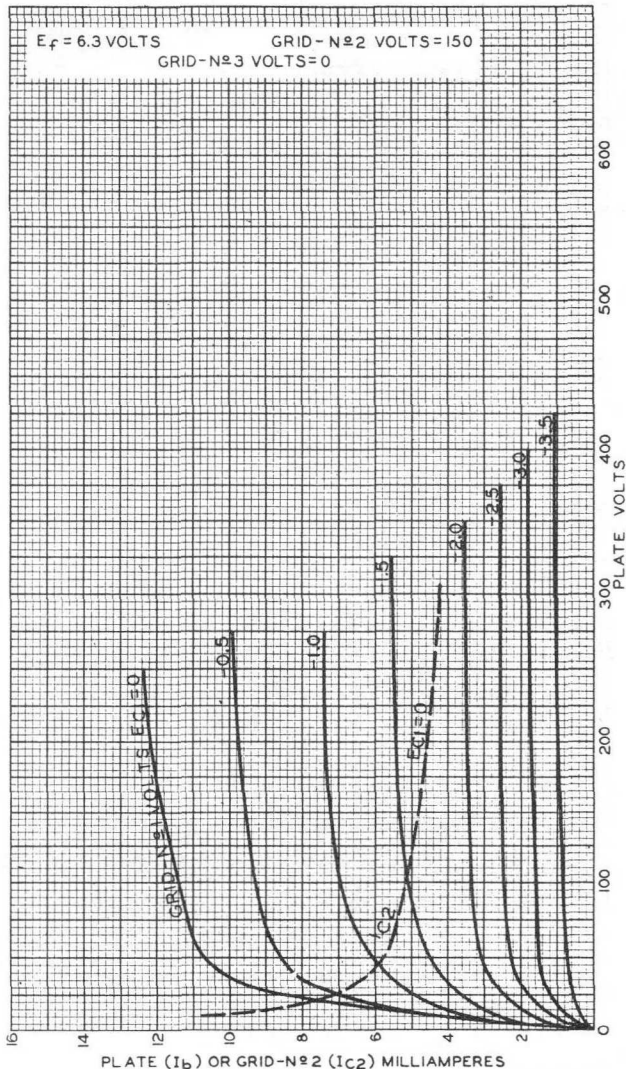
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AVERAGE PLATE CHARACTERISTICS



AUG. 23, 1947

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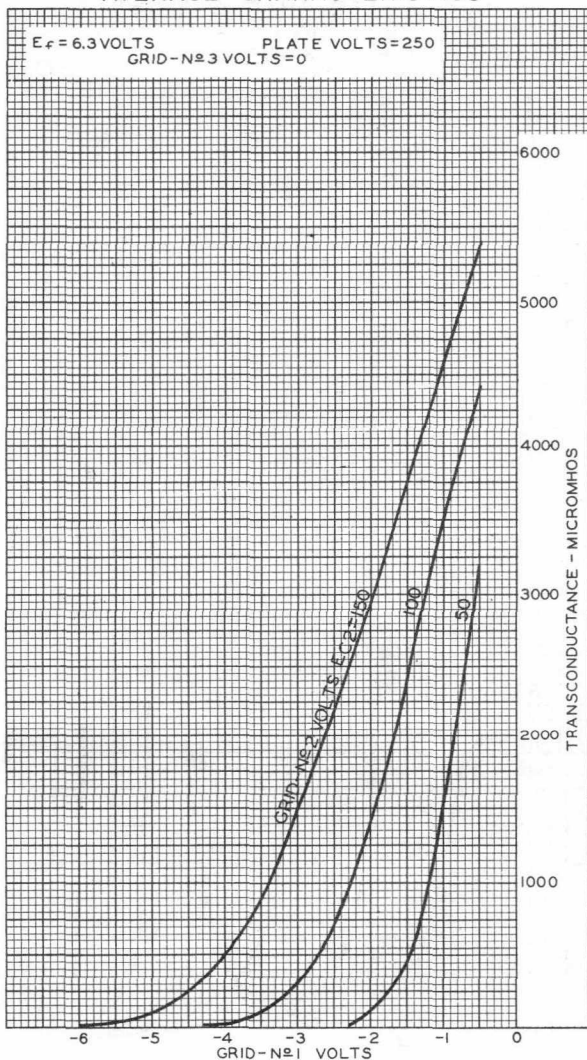
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AVERAGE CHARACTERISTICS



AUG. 21, 1947

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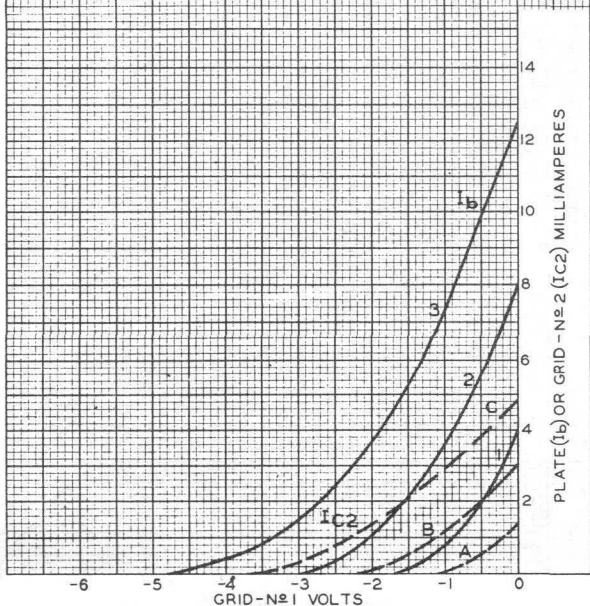
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AVERAGE CHARACTERISTICS

$E_f = 6.3$ VOLTS PLATE VOLTS ≈ 250 GRID - N $\circ$ 3 VOLTS = 0

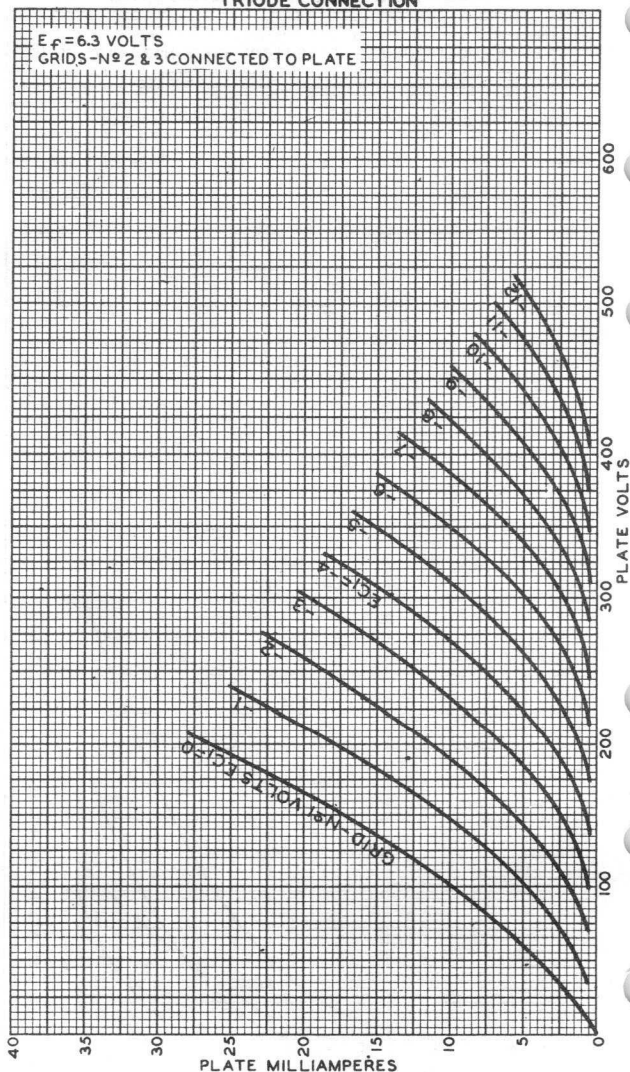
CURVES		GRID - N $\circ$ 2 VOLTS
I _b —	I _{C2} - -	
1	A	50
2	B	100
3	C	150



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AVERAGE PLATE CHARACTERISTICS
TRIODE CONNECTION

DEC. 10, 1947

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