



6AS6

SHARP-CUTOFF PENTODE

MINIATURE TYPE

6AS6

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage. 6.3 ac or dc volts

Current. 0.175 amp

Direct Interelectrode Capacitances:

	Without Ex- ternal Shield	With External Shield No. 316	
Grid No.1 to Plate . .	0.025 max.	0.02 max.	μf
Input	3.9	4.0	μf
Output	2.2	3.0	μf
Grid No.1 to Grid No.3.	0.15 max.	0.15 max.	μf
Grid No.3 to Plate . .	0.7 max.	0.7 max.	μf
Grid No.3 to All Other Electrodes . .	3.3	3.4	μf

Mechanical:

Mounting Position. Any

Maximum Overall Length 1-3/4"

Maximum Seated Length. 1-1/2"

Length, Base Seat to Bulb Top (Excluding tip). . 1-1/8" ± 3/32"

Maximum Diameter 3/4"

Bulb T-5-1/2

Base Small-Button Miniature 7-Pin

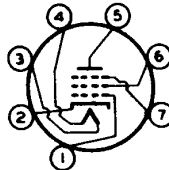
Basing Designation for BOTTOM VIEW 7CM1

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

AMPLIFIER - Class A₁

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE. 180 max. volts

GRID-No.3 VOLTAGE. 27 max. volts

GRID-No.2 VOLTAGE. 140 max. volts

CATHODE CURRENT. 18 max. ma

PLATE DISSIPATION. 1.7 max. watts

GRID-No.2 INPUT. 0.75 max. watt

PEAK HEATER-CATHODE VOLTAGE:

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

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

BULB TEMPERATURE (At hottest point
on bulb surface). 120 max. °C

Characteristics:

Plate Voltage. 120 120 volts

FEB. 1, 1950

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RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

TENTATIVE DATA

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SHARP-CUTOFF PENTODE

Grid-No.3 Voltage.	-3	0	volts
Grid-No.2 Voltage.	120	120	volts
Grid-No.1 Voltage.	-2	-2	volts
Plate Resistance (Approx.)	-	0.15	megohm
Transconductance, Grid No.1 to Plate.	1850	3200	μ hos
Transconductance, Grid No.3 to Plate.	810	470	μ hos
Plate Current.	3.6	5.2	ma
Max. Plate Current for Grid-No.1 Volts = -10.	-	100	μ amp
Max. Plate Current for Grid-No.3 Volts = -15.	-	20	μ amp
Grid-No.2 Current.	4.8	3.5	ma

FEB. 1, 1950

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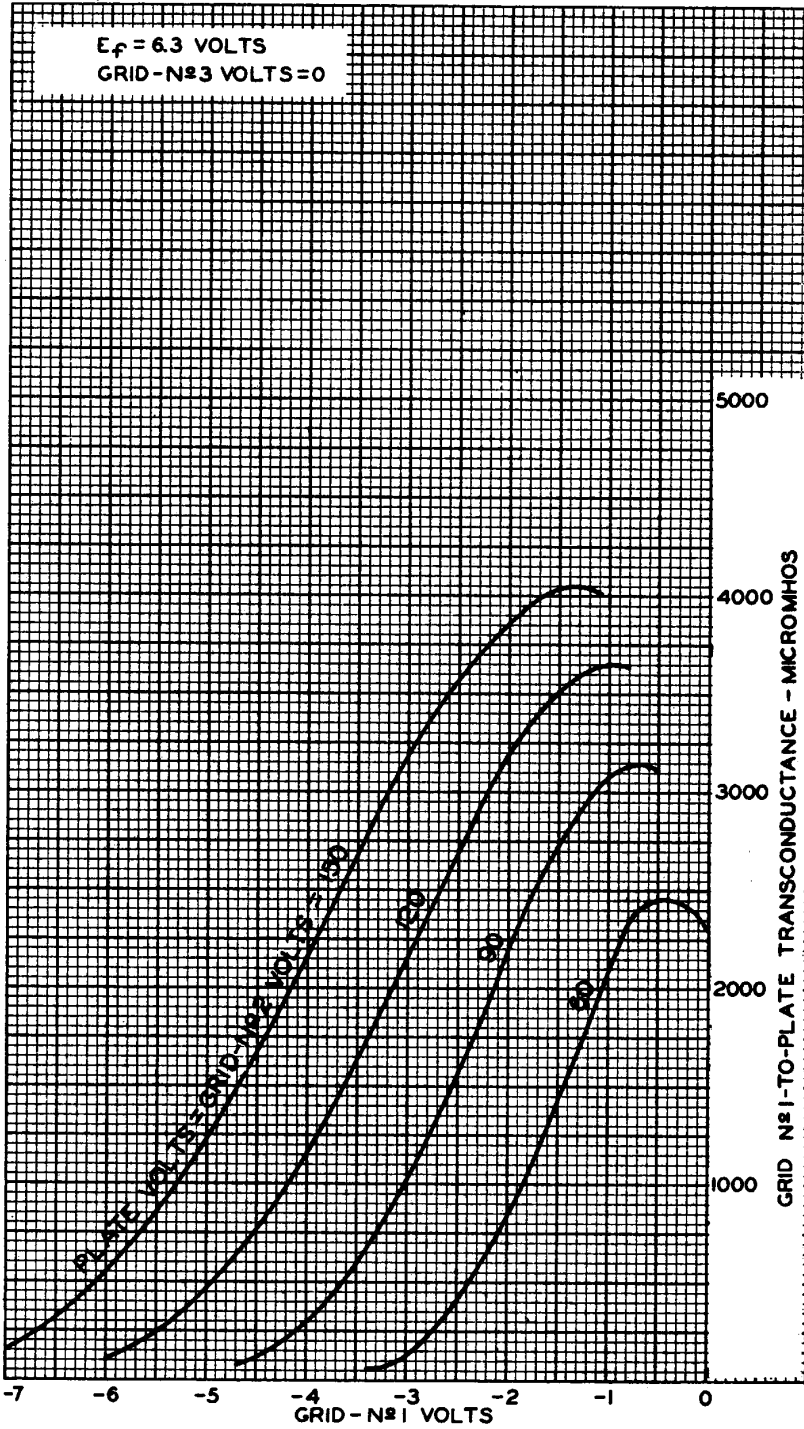
TENTATIVE DATA



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AVERAGE CHARACTERISTICS



NOV. 4, 1949

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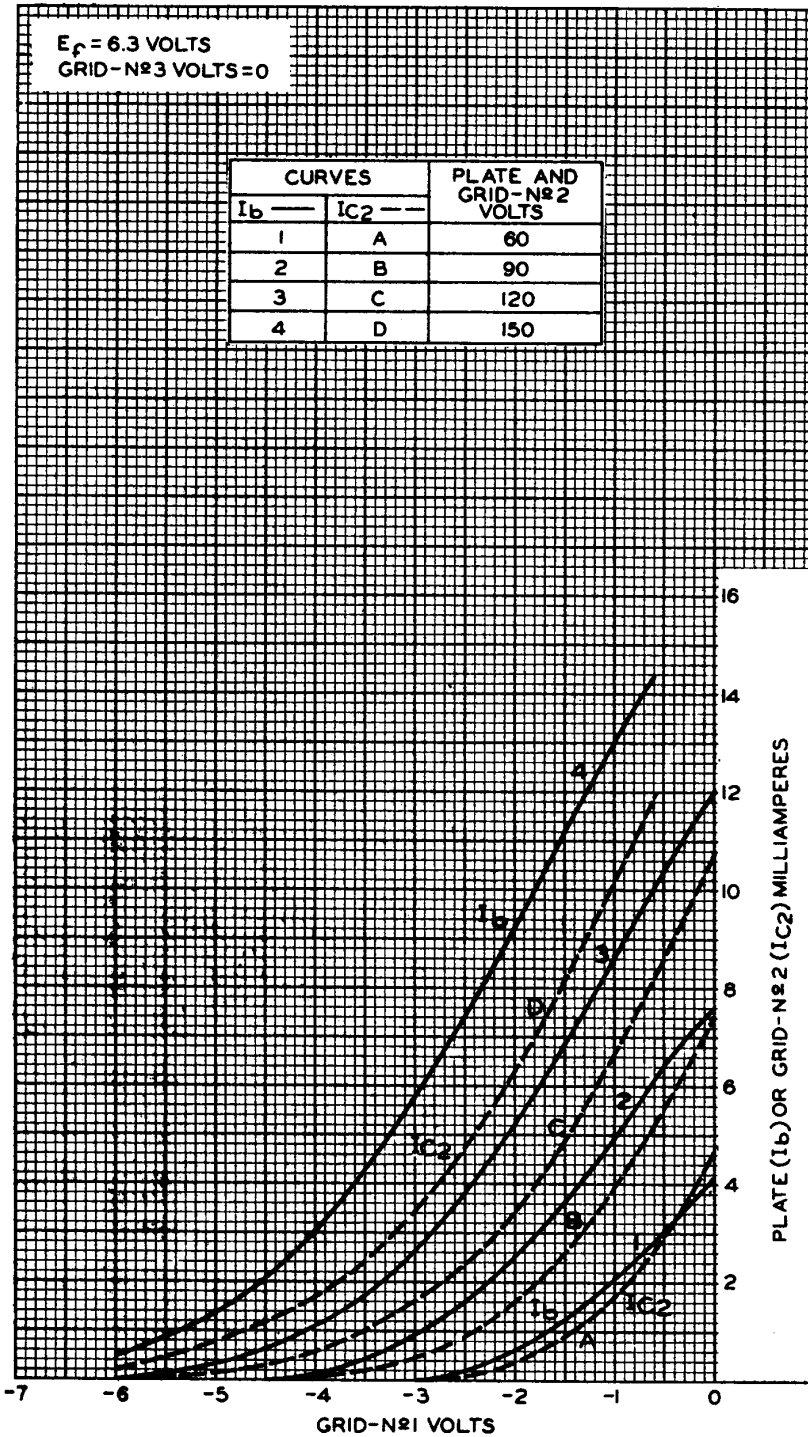


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AVERAGE CHARACTERISTICS

$E_f = 6.3$ VOLTS
 GRID-N \# 3 VOLTS = 0

CURVES		PLATE AND GRID-N \# 2 VOLTS
I_b —	I_{c2} - -	
1	A	60
2	B	90
3	C	120
4	D	150



NOV. 7, 1949

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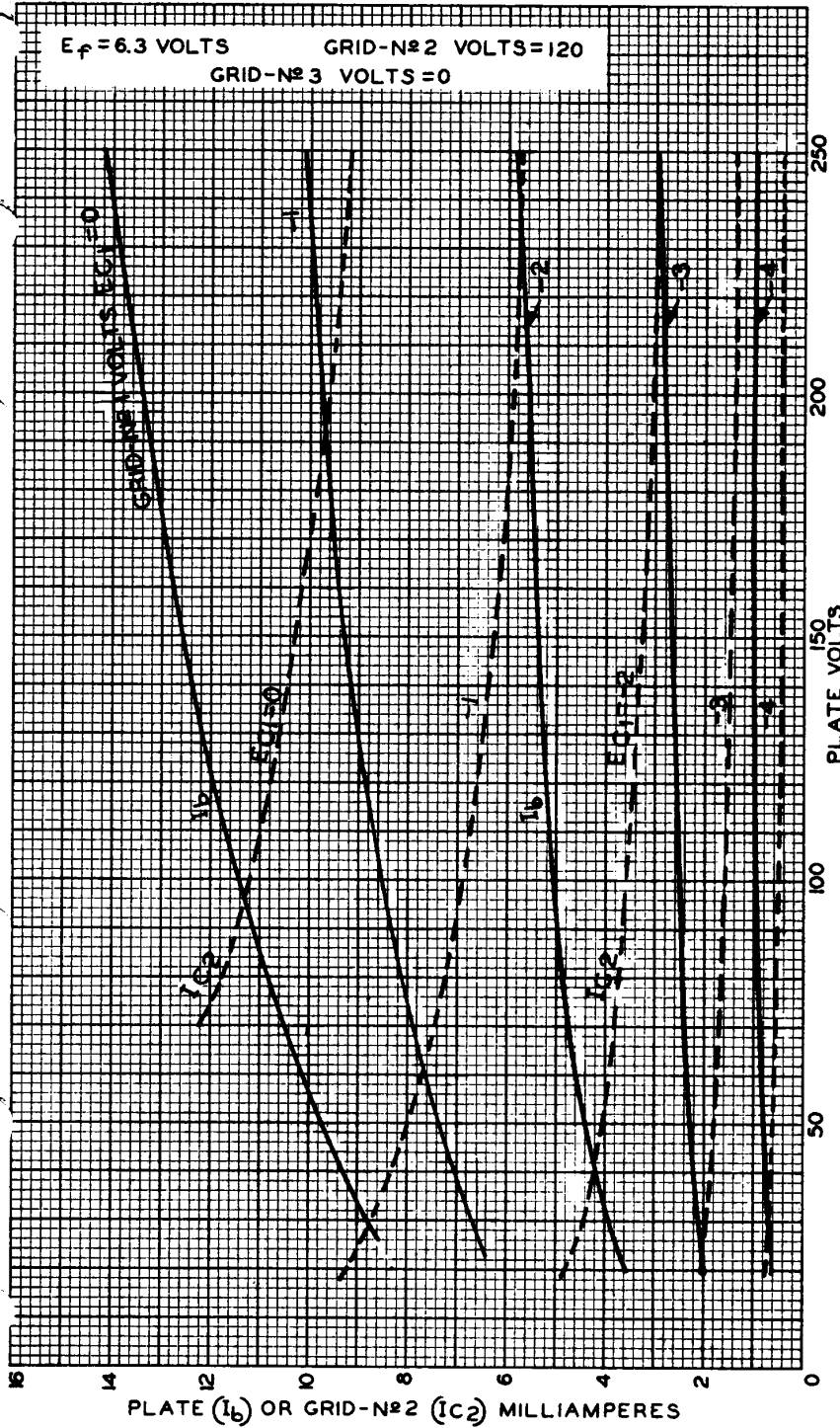


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AVERAGE PLATE CHARACTERISTICS

$E_f = 6.3$ VOLTS GRID-N^o2 VOLTS = 120
GRID-N^o3 VOLTS = 0



NOV. 4, 1949

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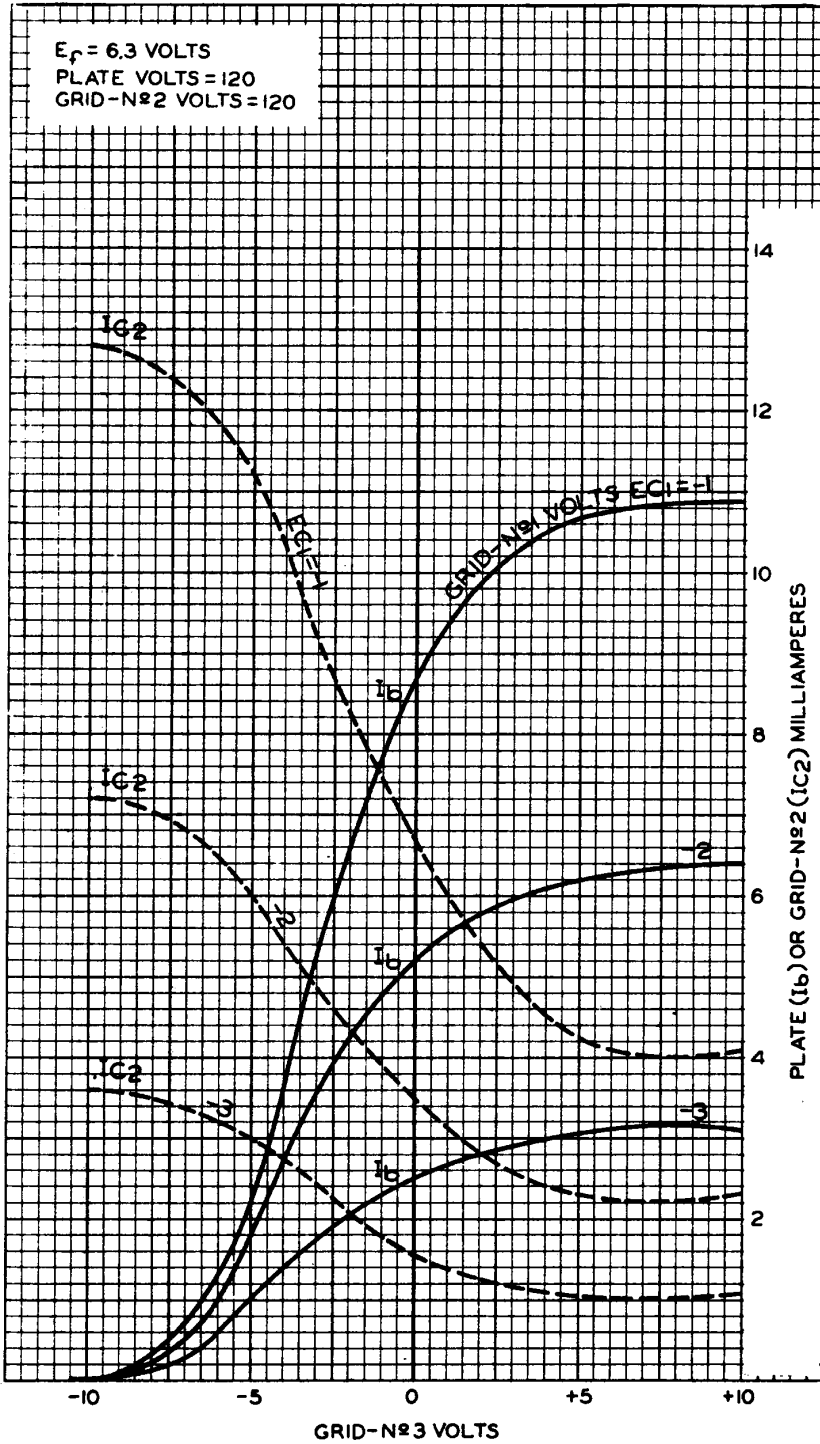
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AVERAGE CHARACTERISTICS



NOV. 9, 1949

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AVERAGE CHARACTERISTICS

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