



6DC6

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SEMIREMOTE-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 (No external shield):

Grid No.1 to plate . . . 0.02 max. $\mu\mu\text{f}$

Input 6.5 $\mu\mu\text{f}$

Output 2 $\mu\mu\text{f}$

Mechanical:

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)

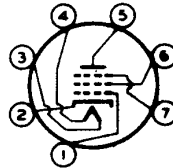
Basing Designation for BOTTOM VIEW 7CM

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 A₁

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE 300 max. volts

GRID-No.3 (SUPPRESSOR) VOLTAGE 0 max. volts

GRID-No.2 SUPPLY VOLTAGE 300 max. volts

GRID-No.2 (SCREEN) VOLTAGE See Rating Curve at
front of this Section

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

Positive bias value 0 max. volts

PLATE DISSIPATION 2 max. watts

GRID-No.2 INPUT 0.5 max. watt

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode . 200 max. volts

Heater positive with respect to cathode . 200[▲] max. volts

Typical Operation and Characteristics:

Plate Supply Voltage 200 volts

Grid No.3 Connected to cathode at socket

Grid-No.2 Voltage 150 volts

Cathode-Bias Resistor 180 ohms

Plate Resistance (Approx.) 0.5 megohm

[▲] The dc component must not exceed 100 volts.

JUNE 14, 1954

TUBE DIVISION

TENTATIVE DATA

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Transconductance	5500	μ mhos
Grid-No.1 Voltage (Approx.) for transconductance of 50 μ mhos	-12.5	volts
Plate Current	9	ma
Grid-No.2 Current	3	ma

Maximum Circuit Values (For maximum rated conditions):

Grid-No.1-Circuit Resistance:

For fixed-bias operation	0.25 max. megohm
For cathode-bias operation	1.0 max. megohm

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TENTATIVE DATA

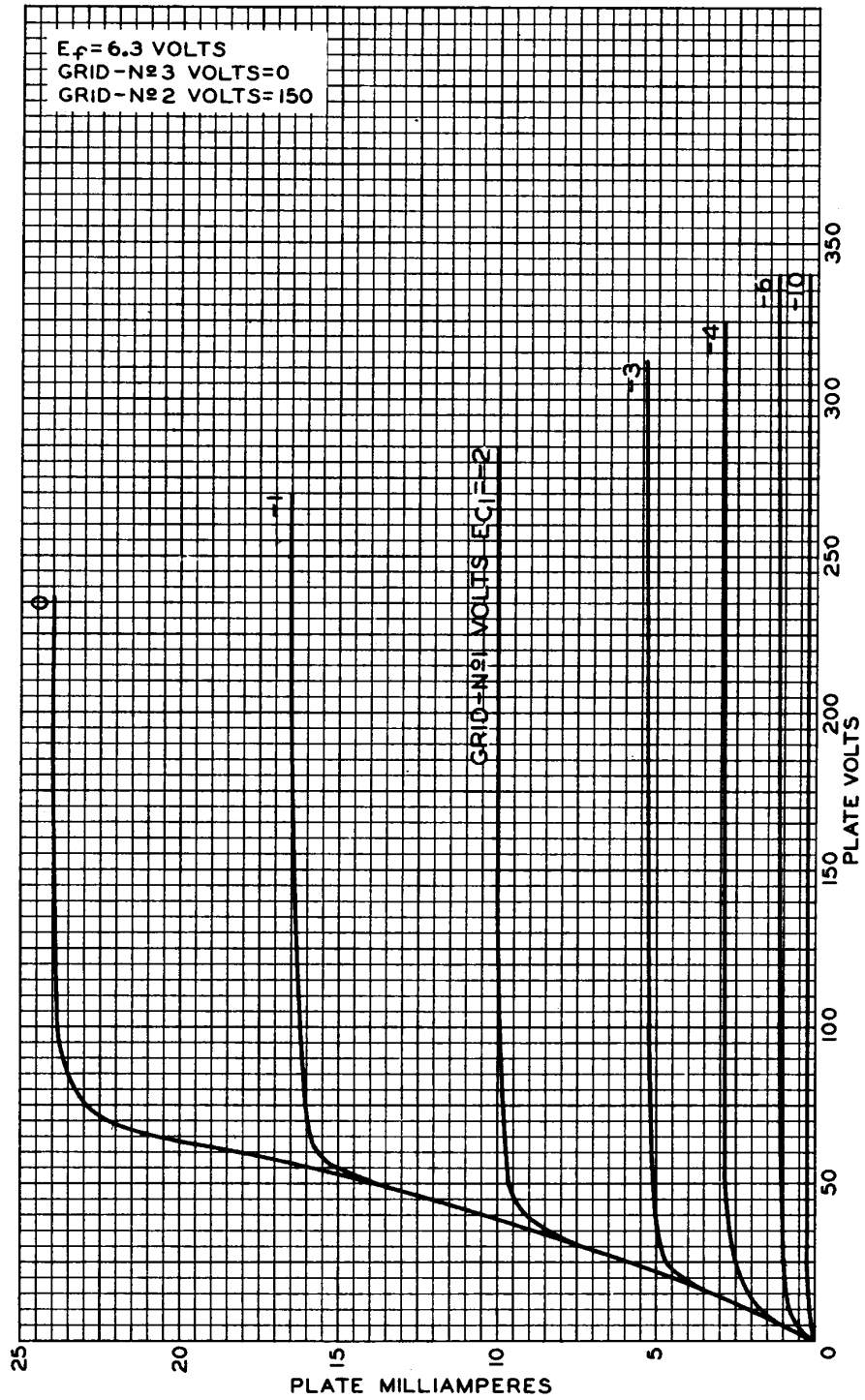
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AVERAGE PLATE CHARACTERISTICS



ELECTRON TUBE DIVISION
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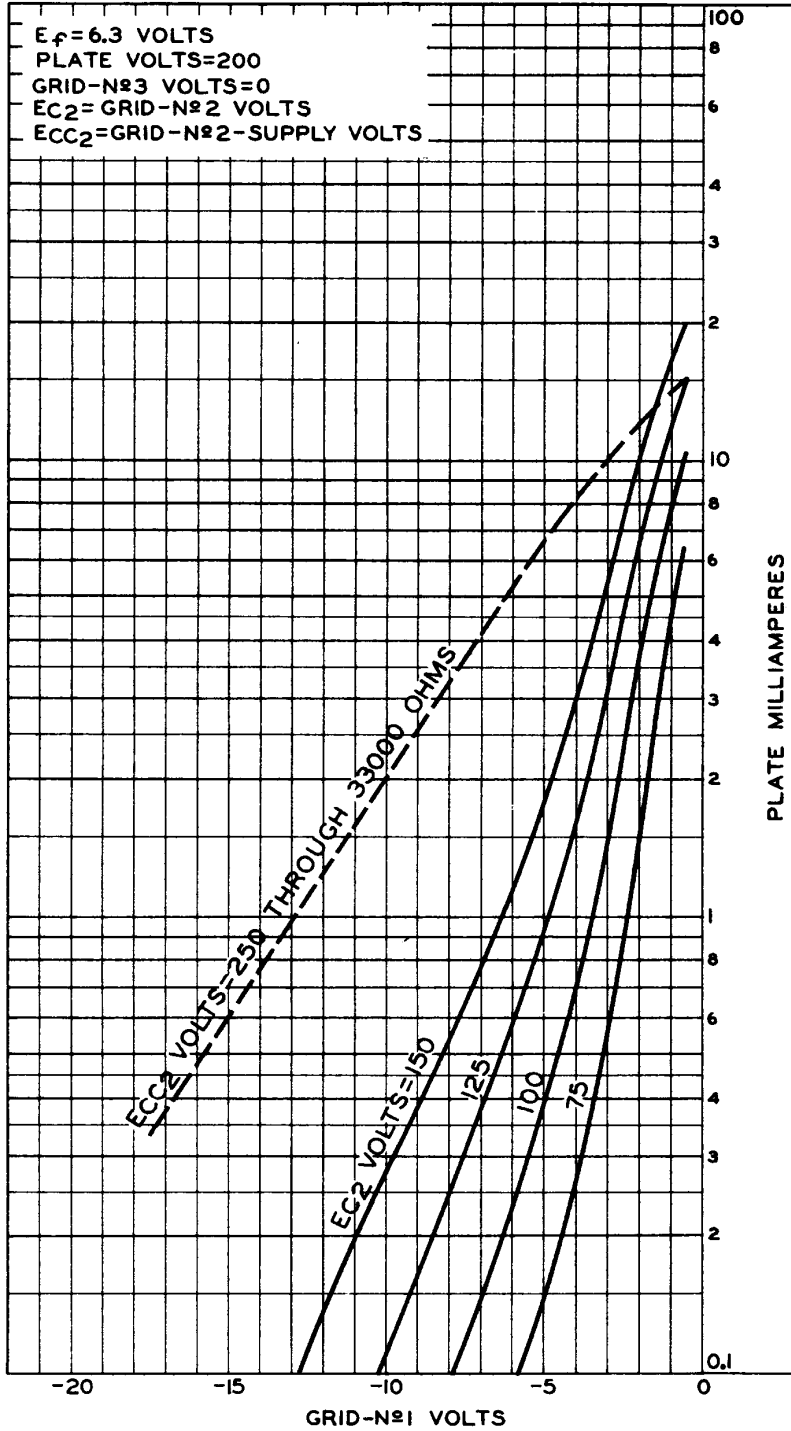
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AVERAGE CHARACTERISTICS



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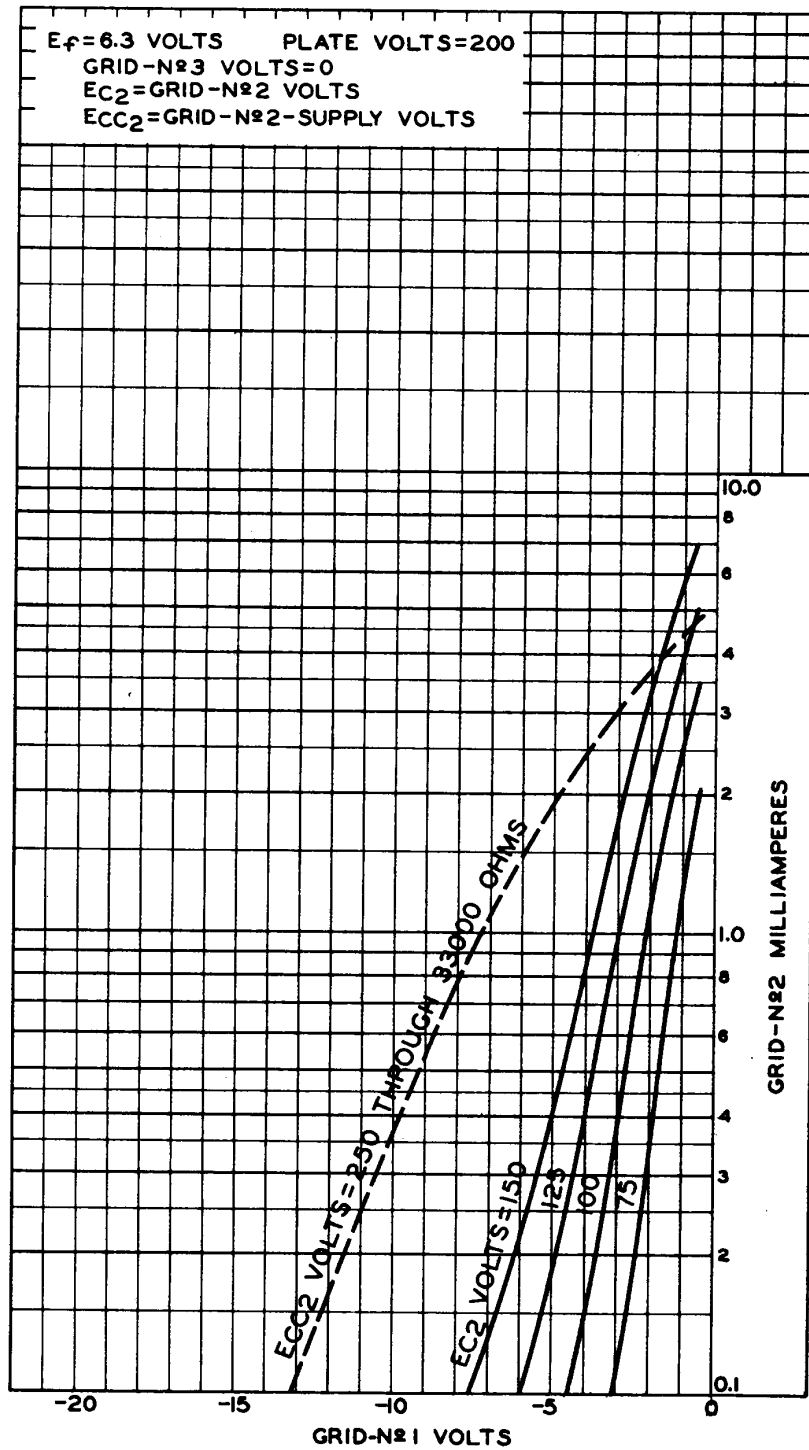
92CM-8337



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AVERAGE CHARACTERISTICS



JUNE 15, 1954

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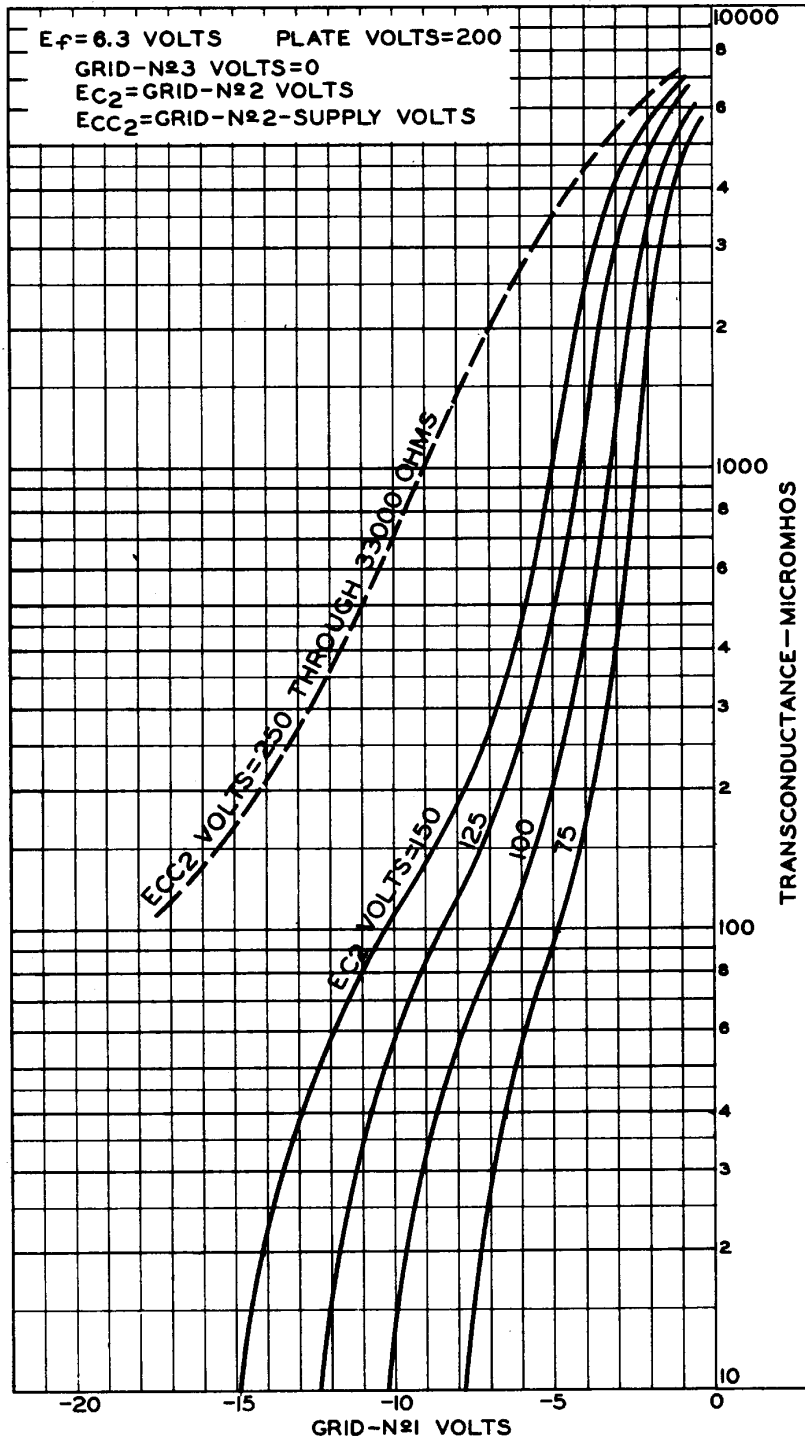
92CM-8338

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AVERAGE CHARACTERISTICS



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