



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

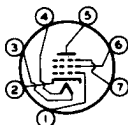
Direct Interelectrode Capacitances (No external shield):

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

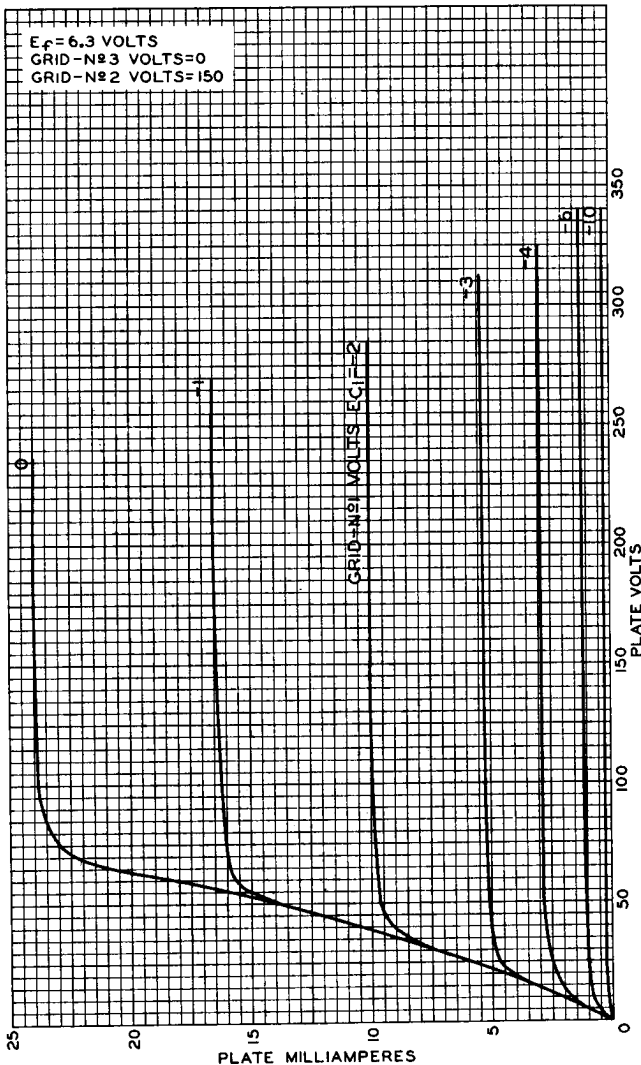
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AVERAGE PLATE CHARACTERISTICS

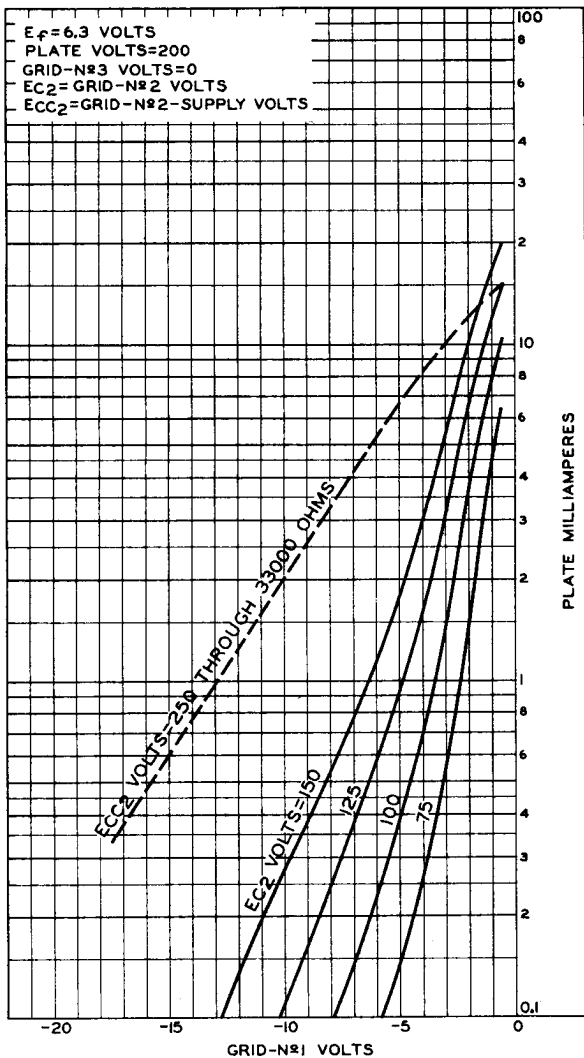


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AVERAGE CHARACTERISTICS



ELECTRON TUBE DIVISION

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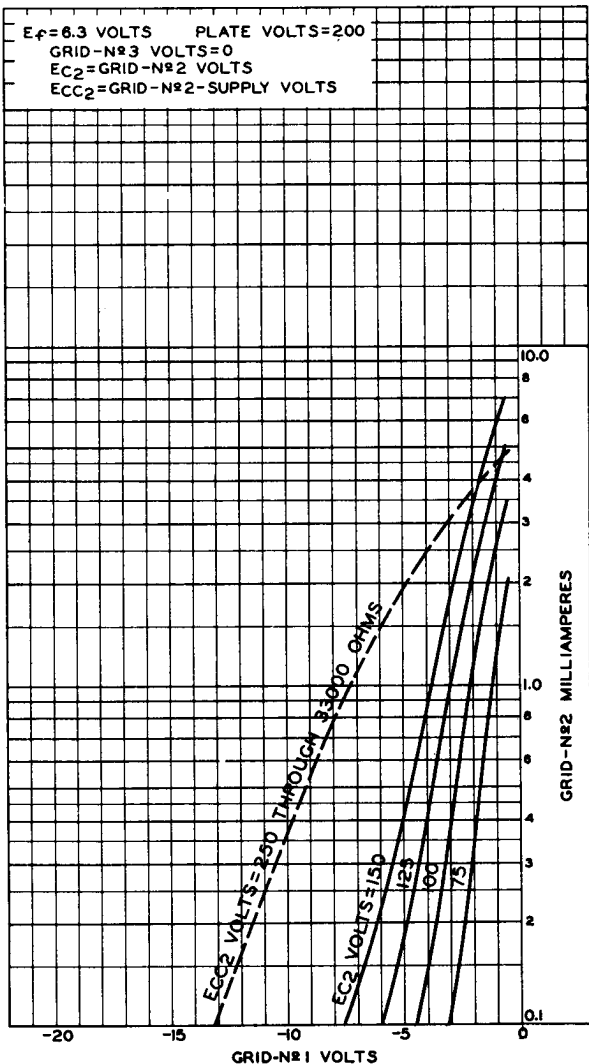
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AVERAGE CHARACTERISTICS



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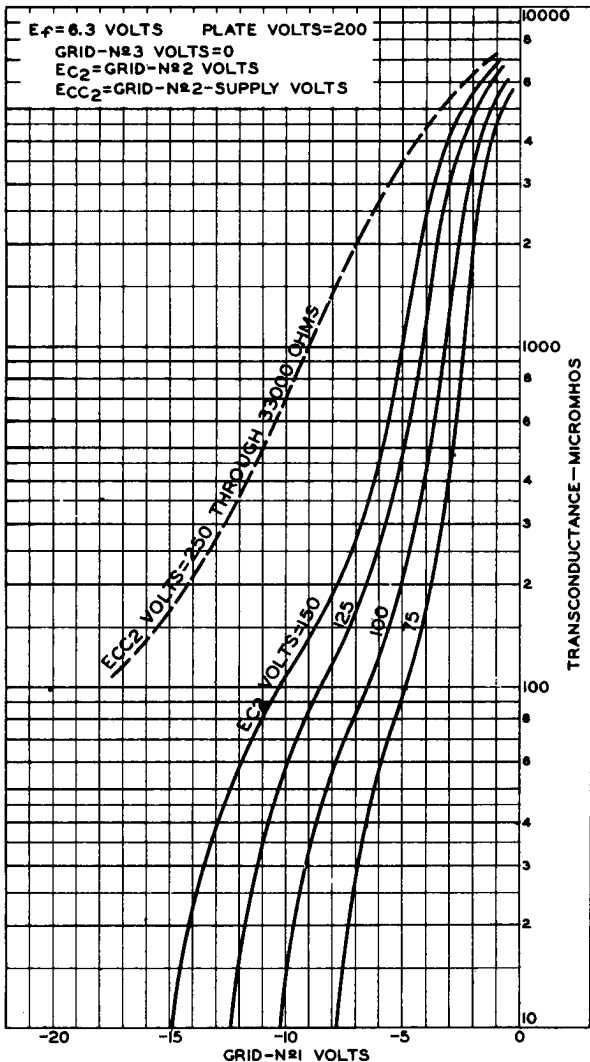
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AVERAGE CHARACTERISTICS



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