



6L7, 6L7-G

6L7
6L7-G

PENTAGRID MIXER AMPLIFIER

Heater ■	Coated Unipotential Cathode	
Voltage	6.3	a-c or d-c volts
Current	0.3	amp.

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Direct Interelectrode Cap.	▲	▲▲
Grid #1 to Grid #3	0.2 max.	0.2 max. μf
Grid #1 to Plate	0.001 max.	0.005 max. μf
Grid #3 to Plate	0.1	0.24 μf
Grid #1 to All Other Electrodes	7.5	6 μf
Grid #3 to All Other Electrodes	10	12 μf
Plate to All Other Electrodes	11	10 μf

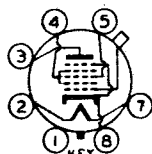
Overall Length	3-1/8" max.	{ 4-7/32" to 4-15/32"
Maximum Diameter	1-5/16"	1-9/16"
Bulb	Metal Shell, MT-8	ST-12
Cap	Miniature	Skirted Min.
Base	{ Small Wafer Octal 7-Pin	{ Small Shell Octal 7-Pin
Basing Designation	7T	G-7T

Pin 1 { 6L7, Shell
6L7-G, No Con.
Pin 2 - Heater
Pin 3 - Plate
Pin 4 - Grids #2 & #4

Pin 5 - Grid #3
Pin 7 - Heater
Pin 8 - Cathode & Grid #5
Cap - Grid #1

Mounting Position

Any



BOTTOM VIEW

AMPLIFIER - Class A₁

Plate Voltage	300 max.	volts
Screen Voltage (Grids #2 & #5)	100 max.	volts
Plate Dissipation	1.5 max.	watts
Screen Dissipation	1.0 max.	watt
Typical Operation:		
Plate	250	volts
Screen	100	volts
Control Grid (Grid #1)	-3	volts
Control Grid (Grid #3)	-3	volts
Plate Res. (approx.)	0.6	megohm
Transcond., Grid #1 to Plate	1100	μmhos
Transcond., Grid #1 to Plate*	5 approx.	μmhos
Plate Cur.	5.3	ma.
Screen Cur.	6.5	ma.

MIXER

Plate Voltage	300 max.	volts
Screen Voltage (Grids #2 & #4)	150 max.	volts
Plate Dissipation	1.0 max.	watt
Screen Dissipation	1.5 max.	watts

■ In circuits where the cathode is not connected directly to the heater, the potential difference between heater and cathode should be kept as low as possible.

▲▲ With shell connected to cathode.

▲▲ With close-fitting shield connected to cathode.

* With grid #1 bias of -15 volts, and grid #3 bias of -15 volts.

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Typical Operation:

Plate	250	250 [#]	volts
Screen	100	150 [#]	volts
Signal-Grid (Grid #1)	-3 min.	-6 [#] min.	volts
Oscillator Grid (Grid #3) **	-10	-15	volts
Peak Osc.-Grid Voltage Applied to Grid #3	12 min.	18 min.	volts
Plate Res.	Greater than 1		megohm
Conversion Transcond.	375	350	μmhos
Conversion Transcond.	5 [●]	5 ^Δ	μmhos
Plate Cur.	2.4	3.3	ma.
Screen Cur.	7.1	9.2	ma.

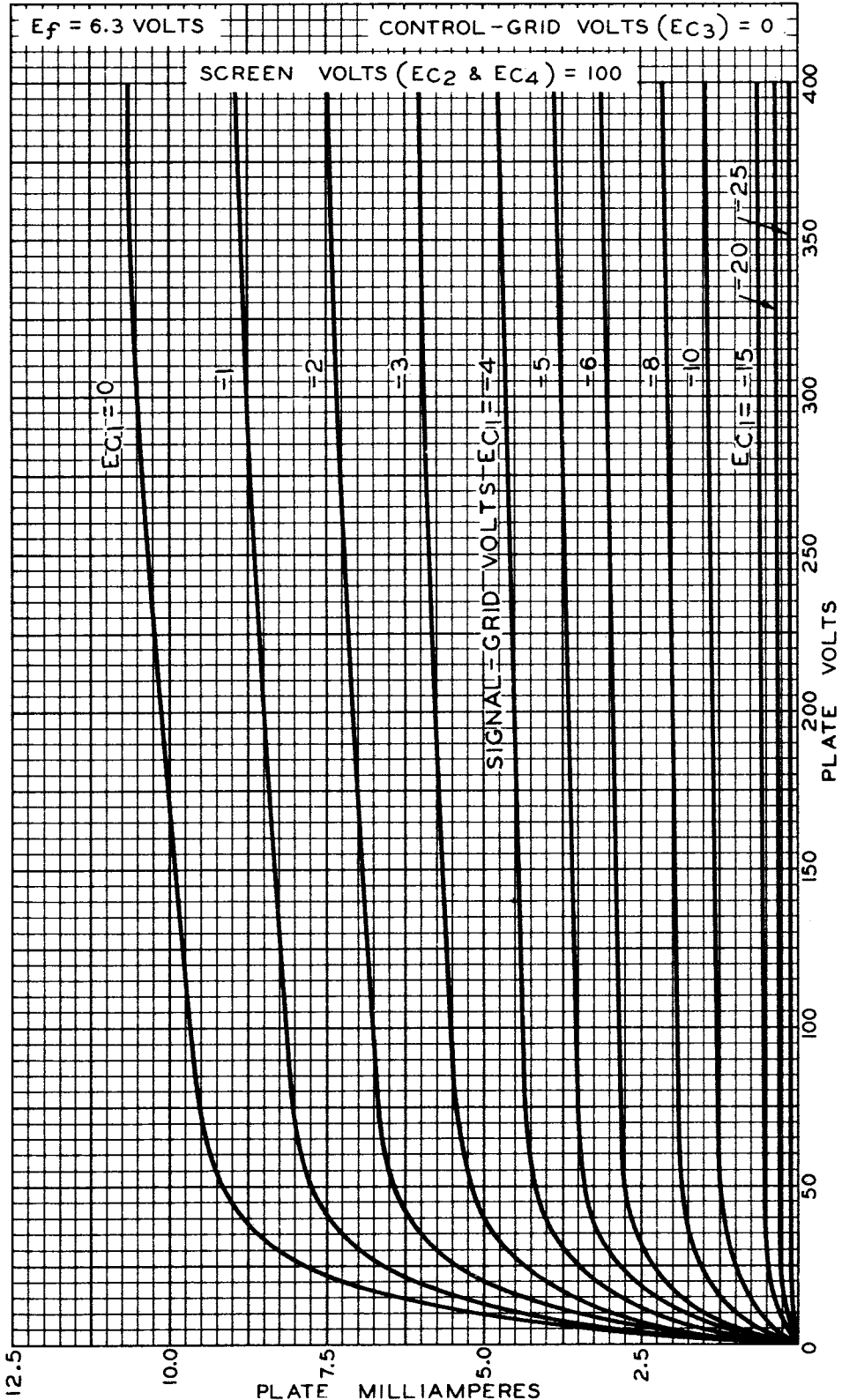
- ** The d-c resistance in grid #3 circuit should not exceed 50000 ohms.
 ● With grid #1 bias of -30 volts. Δ With grid #1 bias of -45 volts.
 # These conditions are recommended for multi-range receiver applications.



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AVERAGE PLATE CHARACTERISTICS WITH E_{C1} AS VARIABLE

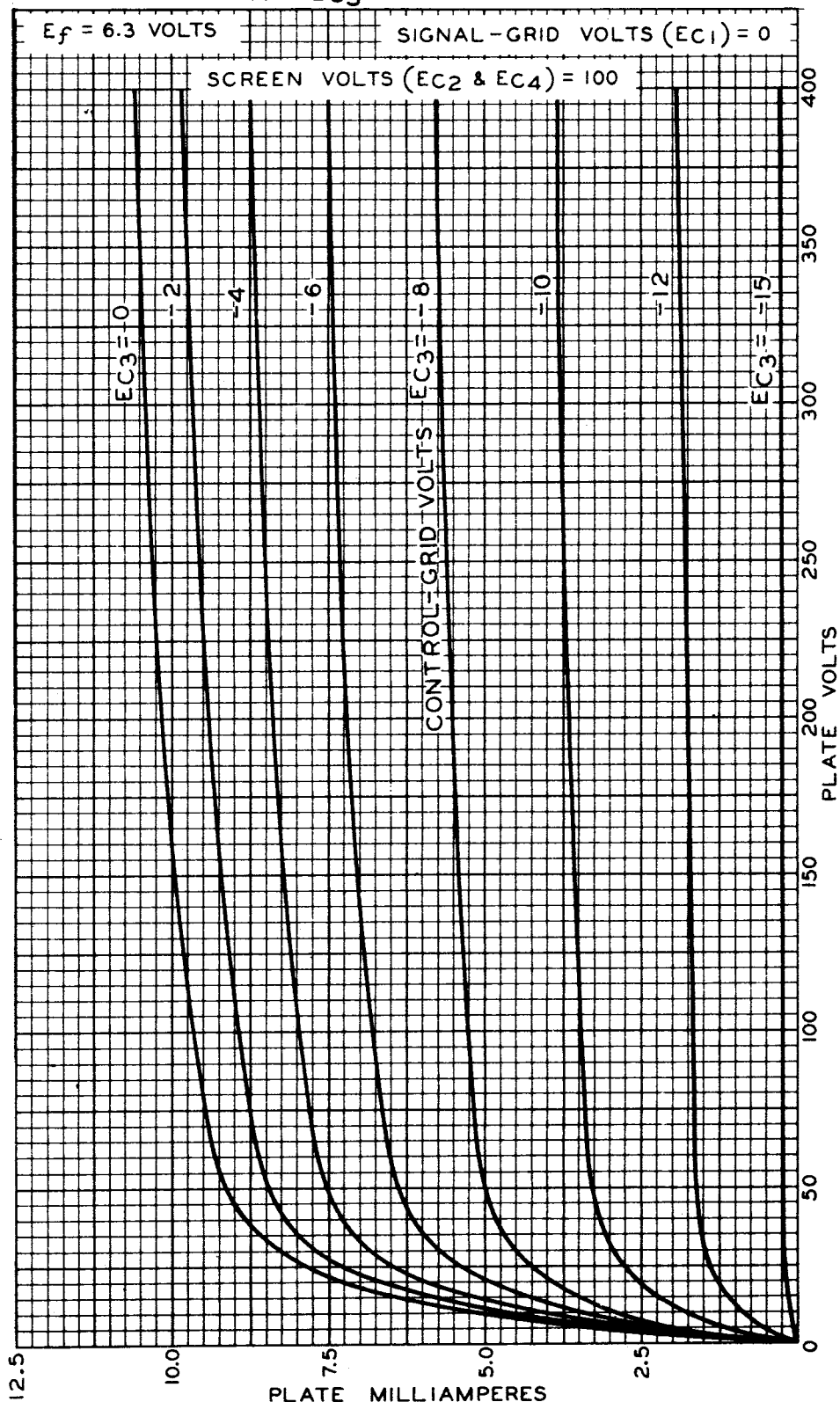


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AVERAGE PLATE CHARACTERISTICS WITH EC_3 AS VARIABLE



JAN. 7, 1936

RCA RADOTRON DIVISION
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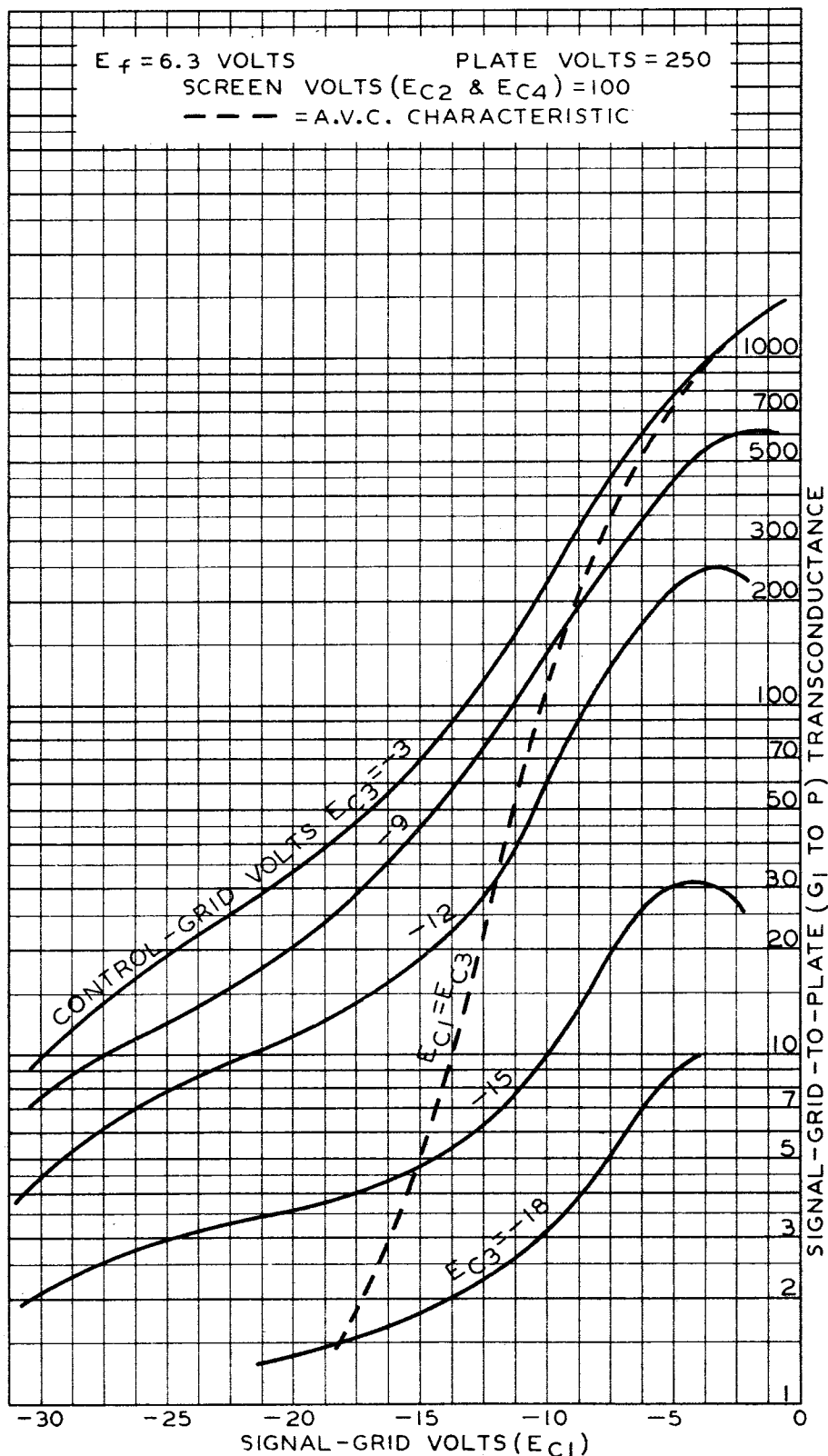
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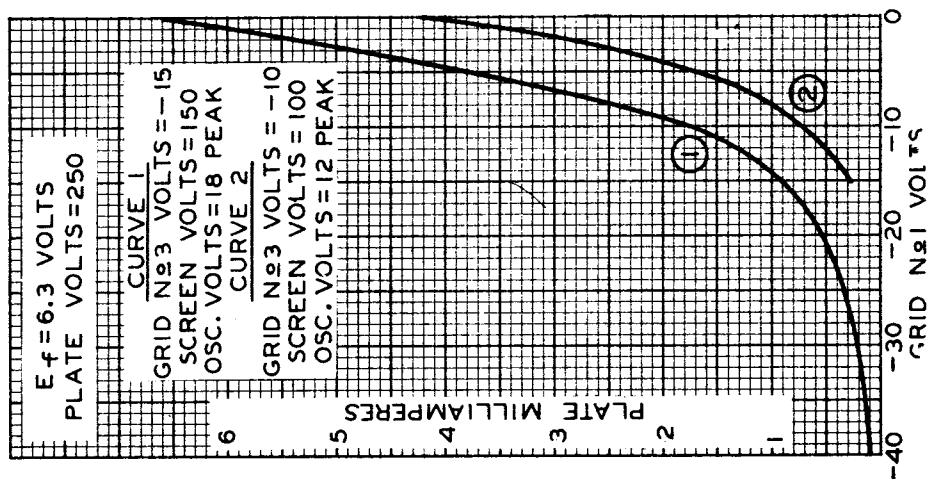
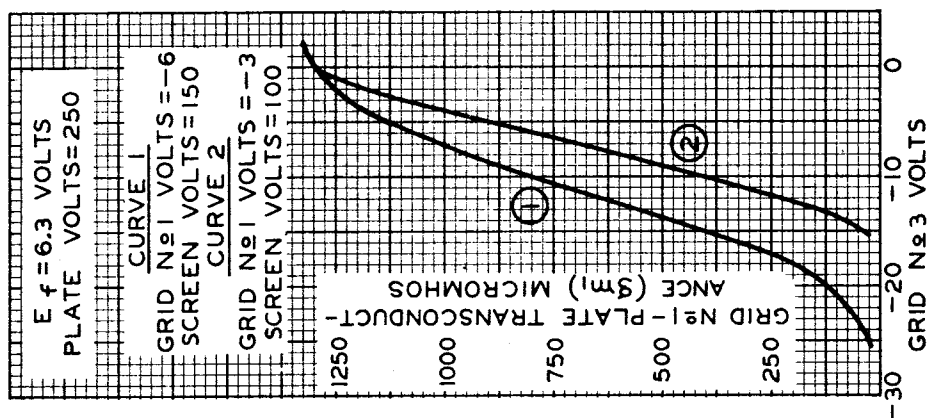
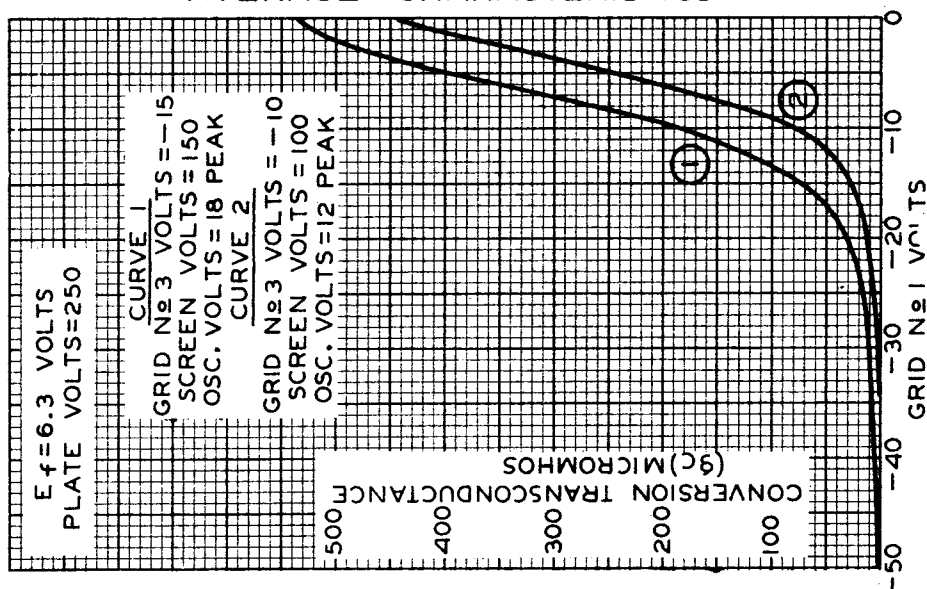
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AVERAGE CHARACTERISTICS

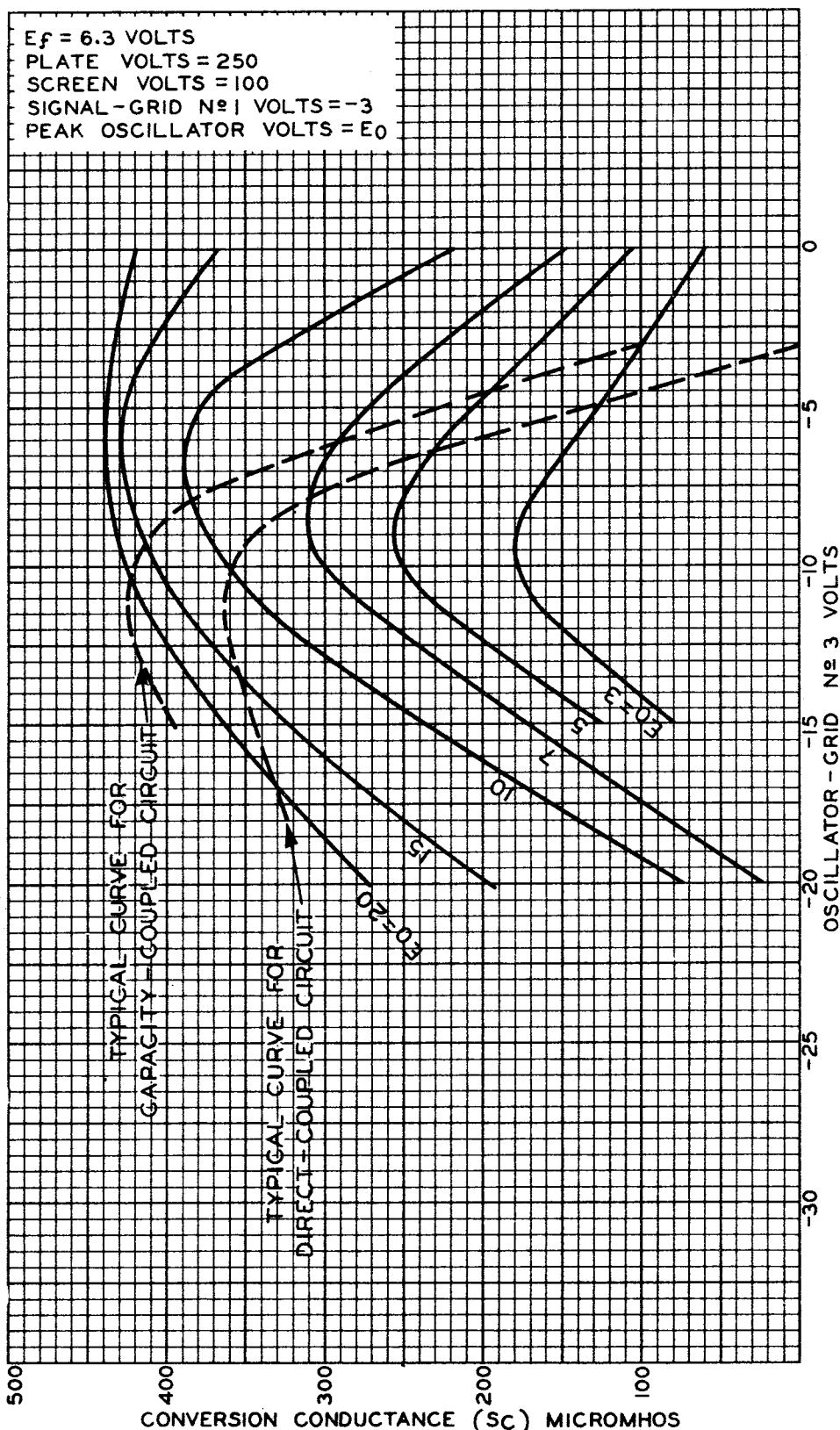




AVERAGE CHARACTERISTICS



OPERATION CHARACTERISTICS

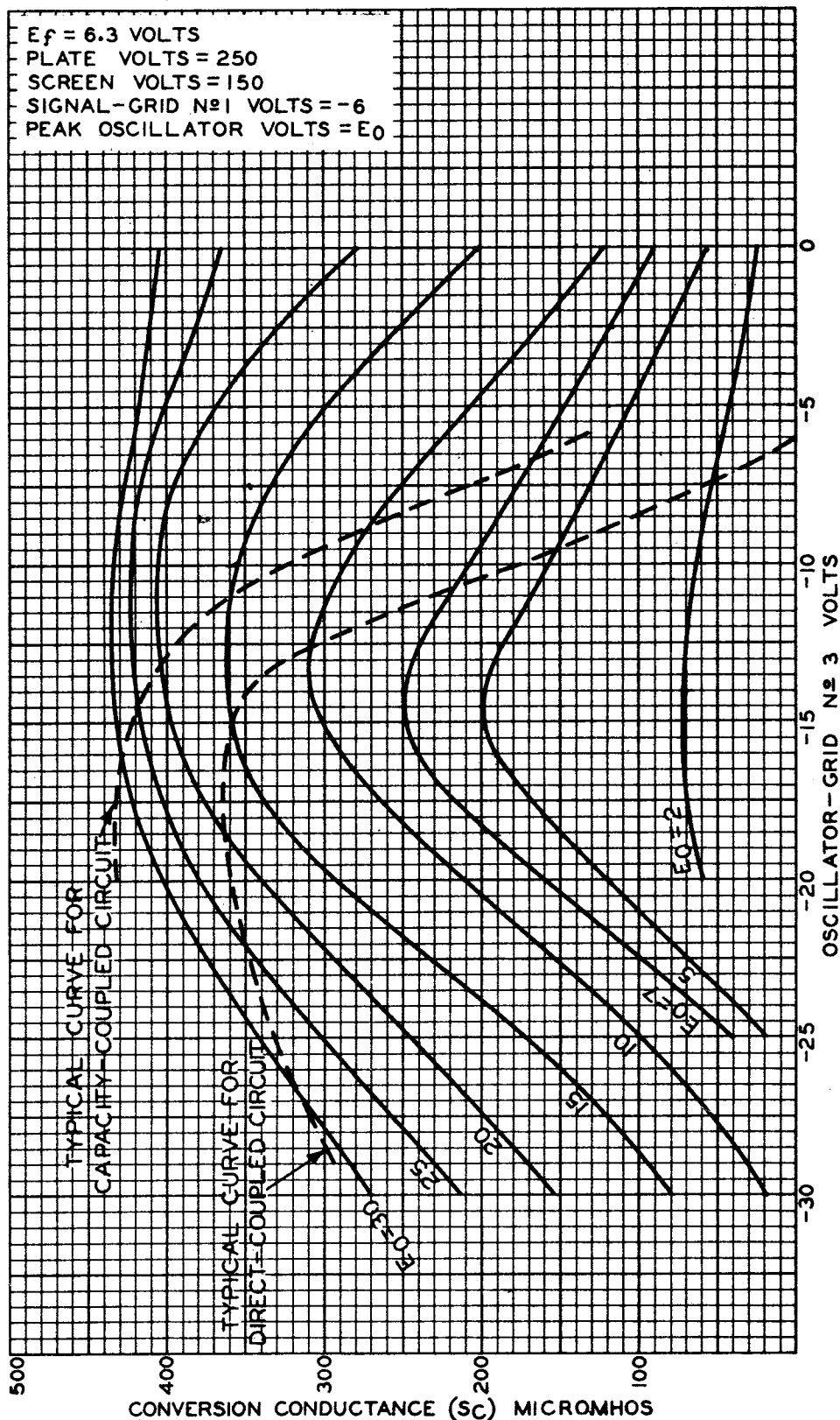


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OPERATION CHARACTERISTICS



JULY 26, 1935

 RCA RADIODRON DIVISION
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