



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.

	6L7	6L7-G
Direct Interelectrode Cap.	▲	▲▲
Grid #1 to Grid #3	0.2 max.	0.2 max. μuf
Grid #1 to Plate	0.001 max.	0.005 max. μuf
Grid #3 to Plate	0.1	0.24 μuf
Grid #1 to All Other Electrodes	7.5	6 μuf
Grid #3 to All Other Electrodes	10	12 μuf
Plate to All Other Electrodes	11	10 μuf

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

Cap Miniature Skirted Min.

Base { Small Wafer { Small Shell

Basing Designation

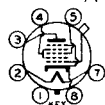
Pin 1 { 6L7, Shell
6L7-G, No Con.

Pin 2 - Heater

Pin 3 - Plate

Pin 4 - Grids #2 & #4

Mounting Position



BOTTOM VIEW

G-7T

Pin 5 - Grid #3

Pin 7 - Heater

Pin 8 - Cathode & Grid #5

Cap - Grid #1

Any

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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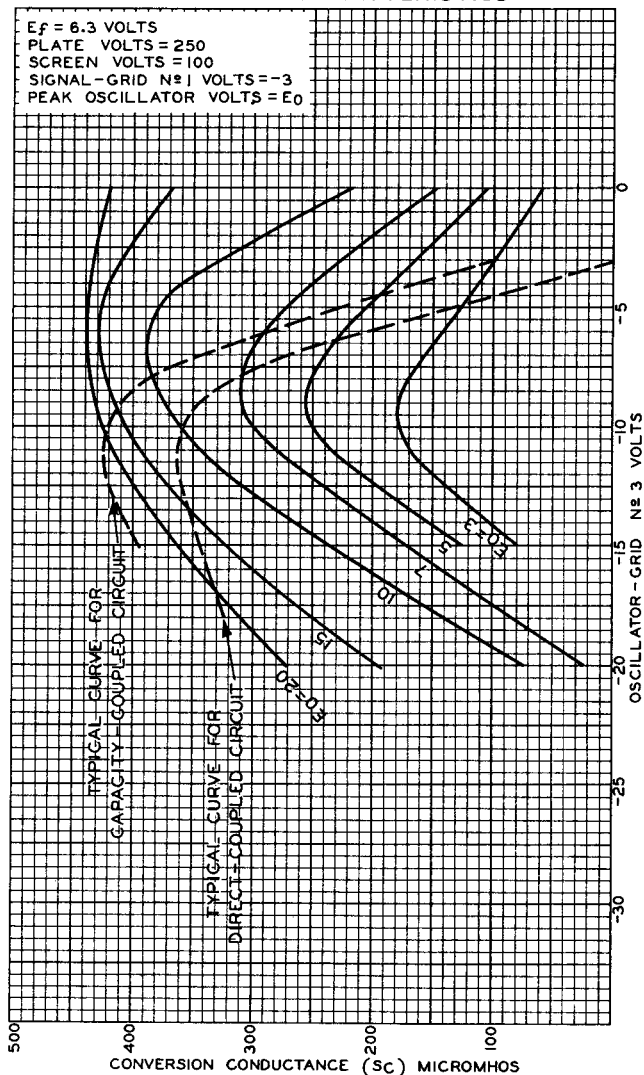
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Typical Operation:

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●	5Δ	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.

OPERATION CHARACTERISTICS

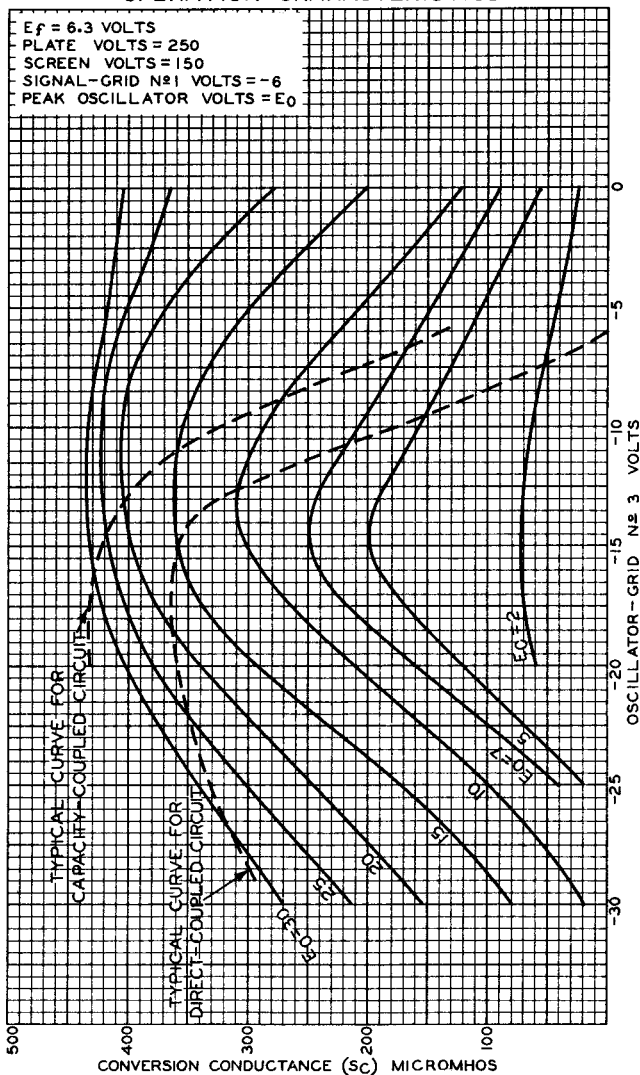


6L7

RCA **Cunningham** **Radiotron** **RADIO TUBES**

RCA-6L7

OPERATION CHARACTERISTICS



JULY 26, 1935

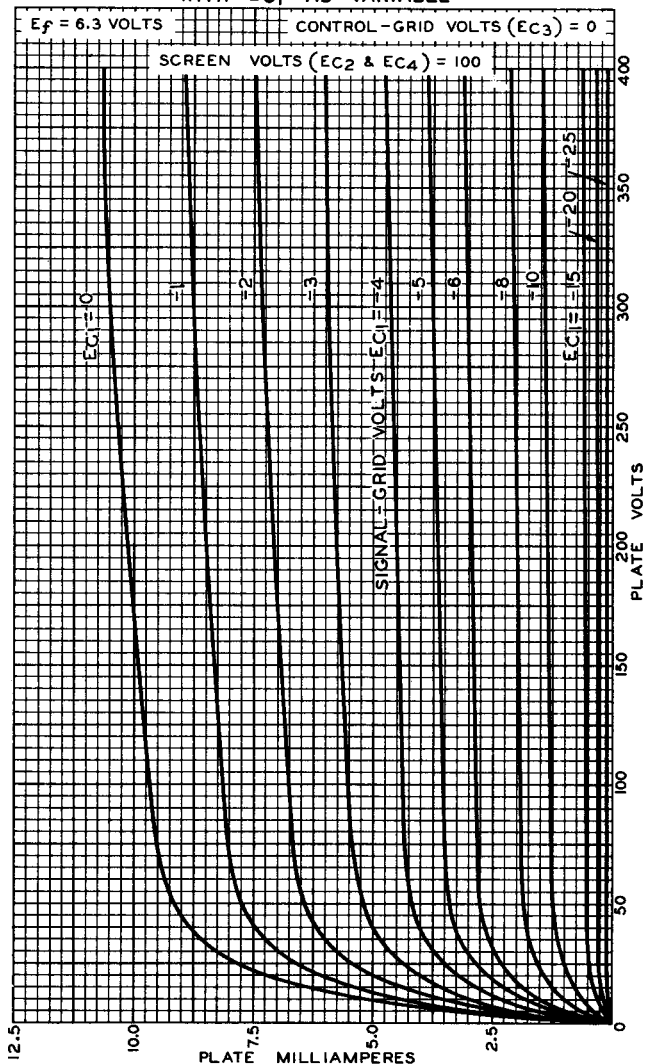
RCA RADIOTRON DIVISION
 RCA MANUFACTURING COMPANY, INC.

92C-4445



6L7

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AVERAGE PLATE CHARACTERISTICS
WITH E_{C1} AS VARIABLE

JAN. 3, 1936

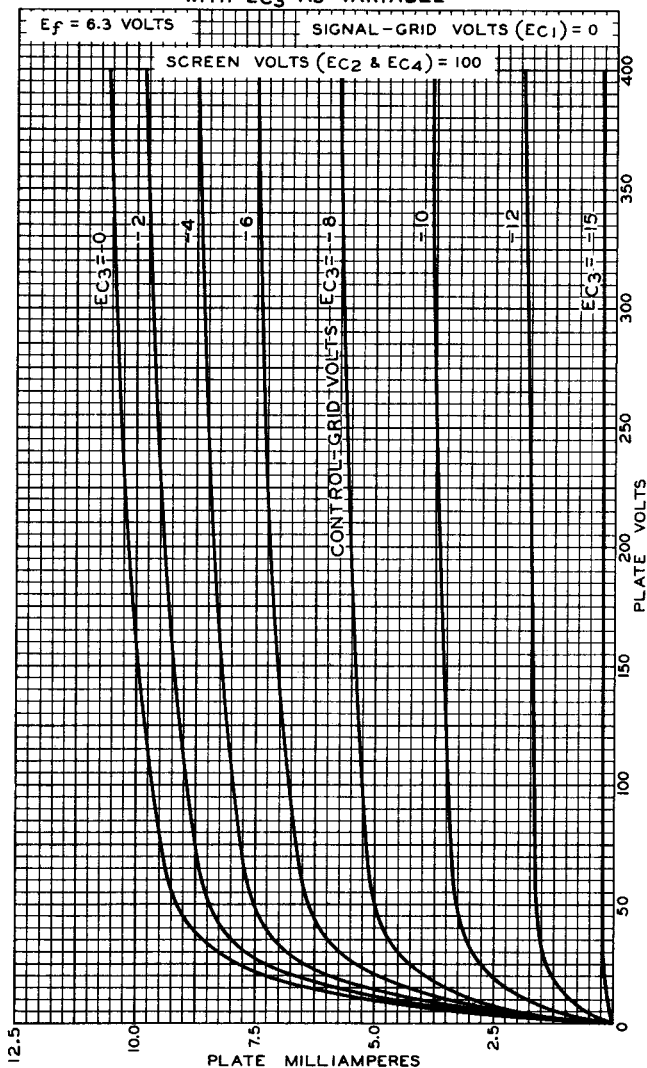
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92C-4531

6L7



6L7

AVERAGE PLATE CHARACTERISTICS
WITH EC_3 AS VARIABLE

JAN. 7, 1936

RCA RADOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.

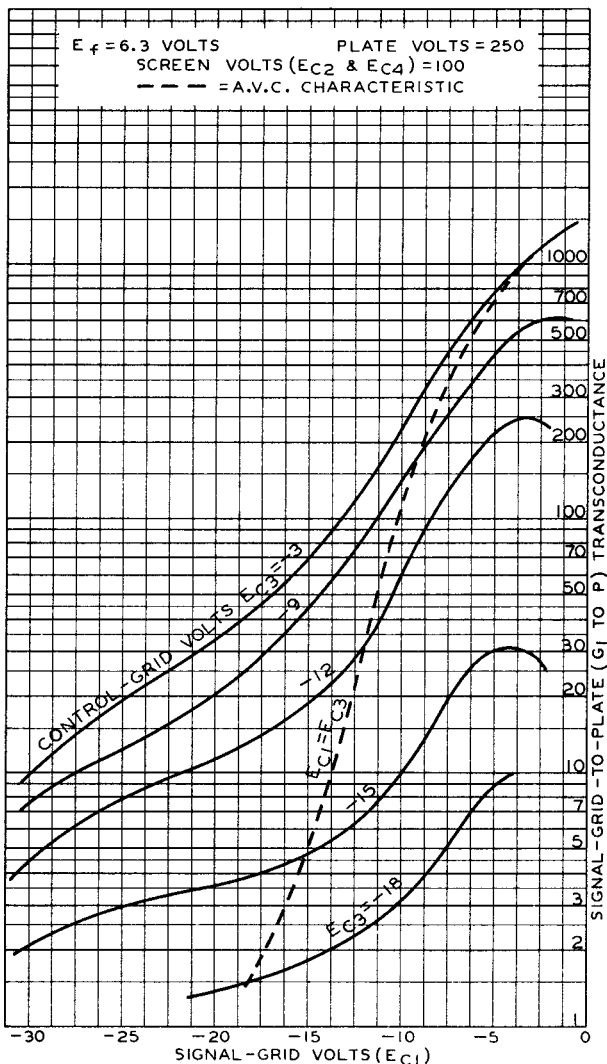
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AVERAGE CHARACTERISTICS





AVERAGE CHARACTERISTICS

