



6C5  
6C5-GT/G

## 6C5, 6C5-GT/G

### DETECTOR AMPLIFIER TRIODE

Heater <sup>■</sup>		Coated Unipotential Cathode	
Voltage	6.3	a-c or d-c volts	
Current	0.3	amp.	
	<u>6C5</u>	<u>6C5-GT/G</u>	
Direct Interelectrode Cap.	▲	▲▲	
Grid to Plate	2.0	2.2	μf
Grid to Cathode	3.0	4.4	μf
Plate to Cathode	11	12	μf
Maximum Overall Length	2-5/8"	3-5/16"	
Maximum Seated Height	2-1/16"	2-3/4"	
Maximum Diameter	1-5/16"	1-5/16"	
Bulb	Metal Shell, MT-8	T-9	
Base	{ Small Wafer { Octal 6-Pin	{ Small Wafer { Octal 6-Pin, Sleeve	
Basing Designation	6Q	GT-6Q	
Pin 1 { 6C5, Shell { 6C5-GT/G, Sleeve		Pin 5 - Grid	
Pin 2 - Heater		Pin 7 - Heater	
Pin 3 - Plate		Pin 8 - Cathode	
Mounting Position	Any		

**BOTTOM VIEW**

*Maximum And Minimum Ratings Are Design-Center Values*

<u>AMPLIFIER</u>
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Plate Voltage	300 max. volts
Grid Voltage	0 min. volts
Plate Dissipation	2.5 max. watts

*Characteristics - Class A<sub>1</sub> Amplifier:*

Plate Voltage	250	volts
Grid Voltage *	-8	volts
Amplification Factor	20	
Plate Resistance	10000	ohms
Transconductance	2000	μmhos
Plate Current	8	ma.

*Typical Operation with Resistance Coupling:*  
See RESISTANCE-COUPLED AMPLIFIER CHART.

<u>DETECTOR</u>
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*Typical Operation:*

	<u>Biased</u>	<u>Grid Leak</u>	
Plate Voltage	250	45 to 100	volts
Grid Voltage	-17 approx.	Return to cathode	volts
Plate Current	Adjusted to 0.2 ma. with no input signal	-	
Grid Leak	-	0.1 to 1.0	megohm
Grid Condenser	-	0.00005 to 0.0005	μf

<sup>■</sup> In circuits where the cathode is not directly connected to the heater, the potential difference between heater and cathode should be kept as low as possible.  
<sup>▲▲</sup> with shell of 6C5 connected to cathode. Values are approximate.  
<sup>▲</sup> with external shield connected to cathode. Values are approximate.  
<sup>\*</sup> under maximum rated conditions, the resistance in the grid circuit should not exceed 1.0 megohm.

Mar. 20, 1943

RCA VICTOR DIVISION  
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

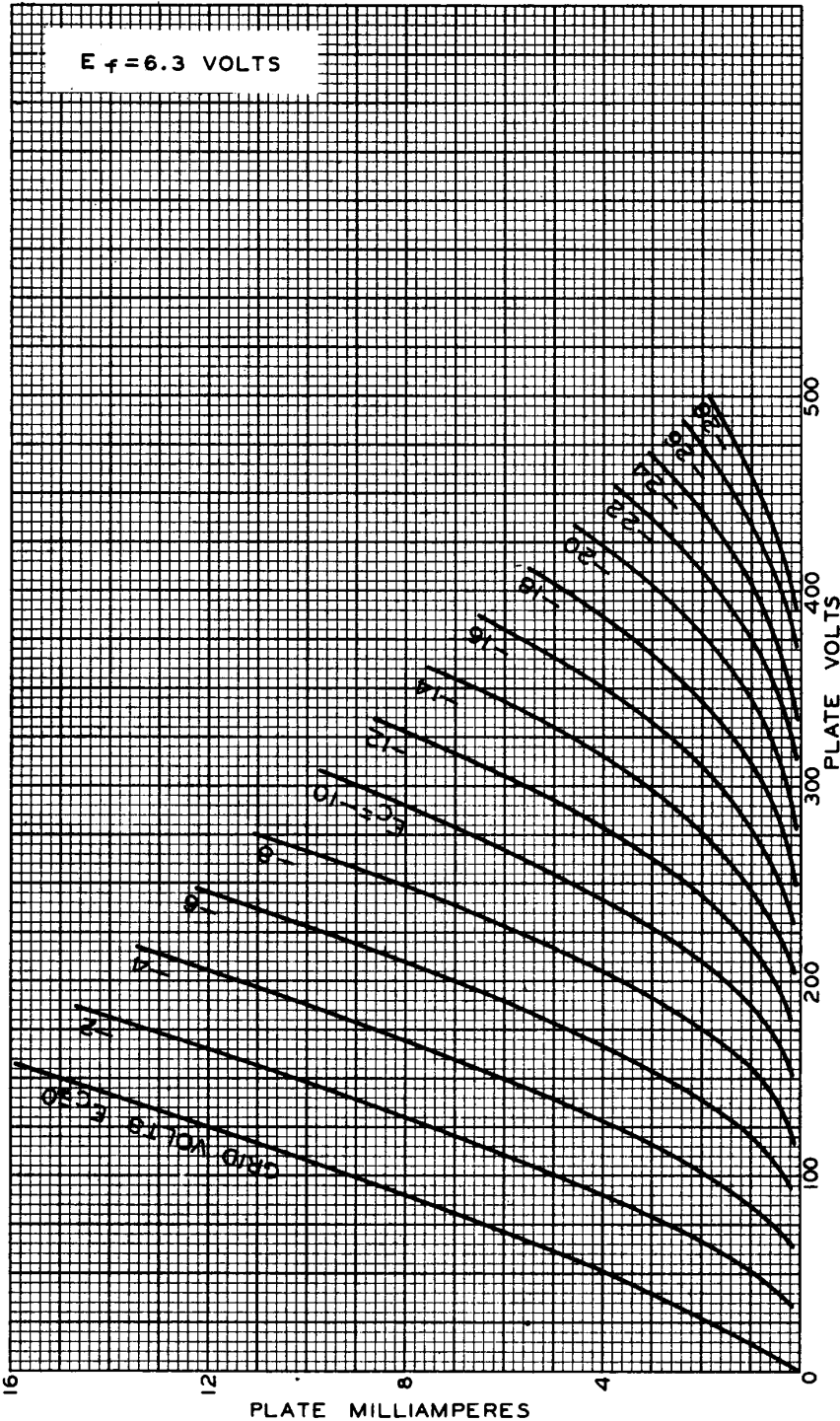
DATA

6C5



6C5

### AVERAGE PLATE CHARACTERISTICS

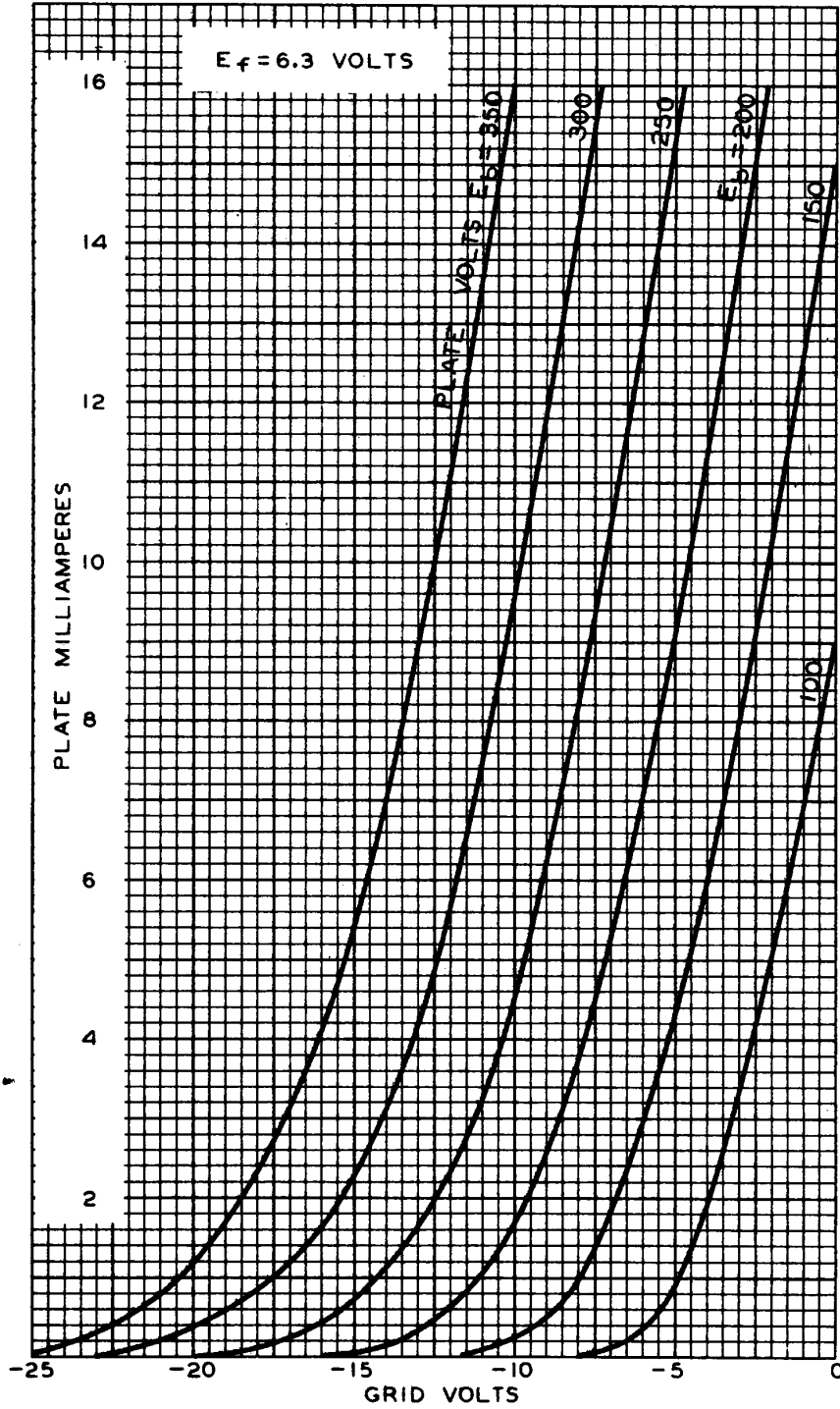


JULY 23, 1935

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92C-4441

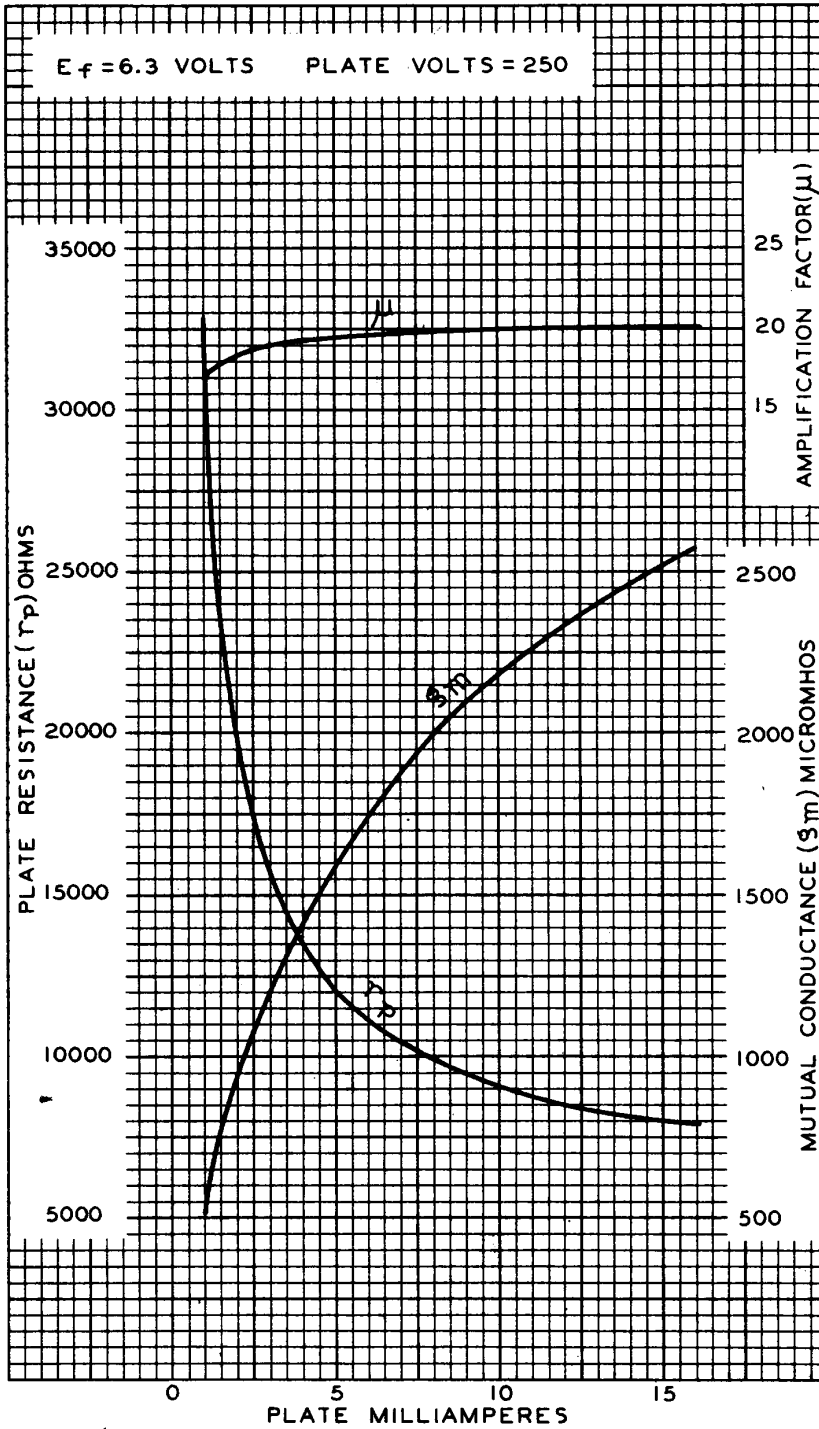
AVERAGE CHARACTERISTICS



6C5



### AVERAGE CHARACTERISTICS



AUG. 23, 1935

RCA RADIOTRON DIVISION  
RCA MANUFACTURING COMPANY, INC.

92C-4462