



6C5
6C5-GT/G

6C5, 6C5-GT/G

DETECTOR AMPLIFIER TRIODE

| Heater [■] | | Coated Unipotential Cathode | |
|--|--------------------------------|---|----|
| Voltage | 6.3 | a-c or d-c volts | |
| Current | 0.3 | amp. | |
| | 6C5 | 6C5-GT/G | |
| 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

| AMPLIFIER | |
|---|----------------|
| Plate Voltage | 300 max. volts |
| Grid Voltage | 0 min. volts |
| Plate Dissipation | 2.5 max. watts |
| Characteristics - Class A₁ 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.

| DETECTOR | |
|--------------------|---|
| 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 |

[■] 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.
^{▲▲} with shell of 6C5 connected to cathode. Values are approximate.
[▲] with external shield connected to cathode. Values are approximate.
^{*} 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

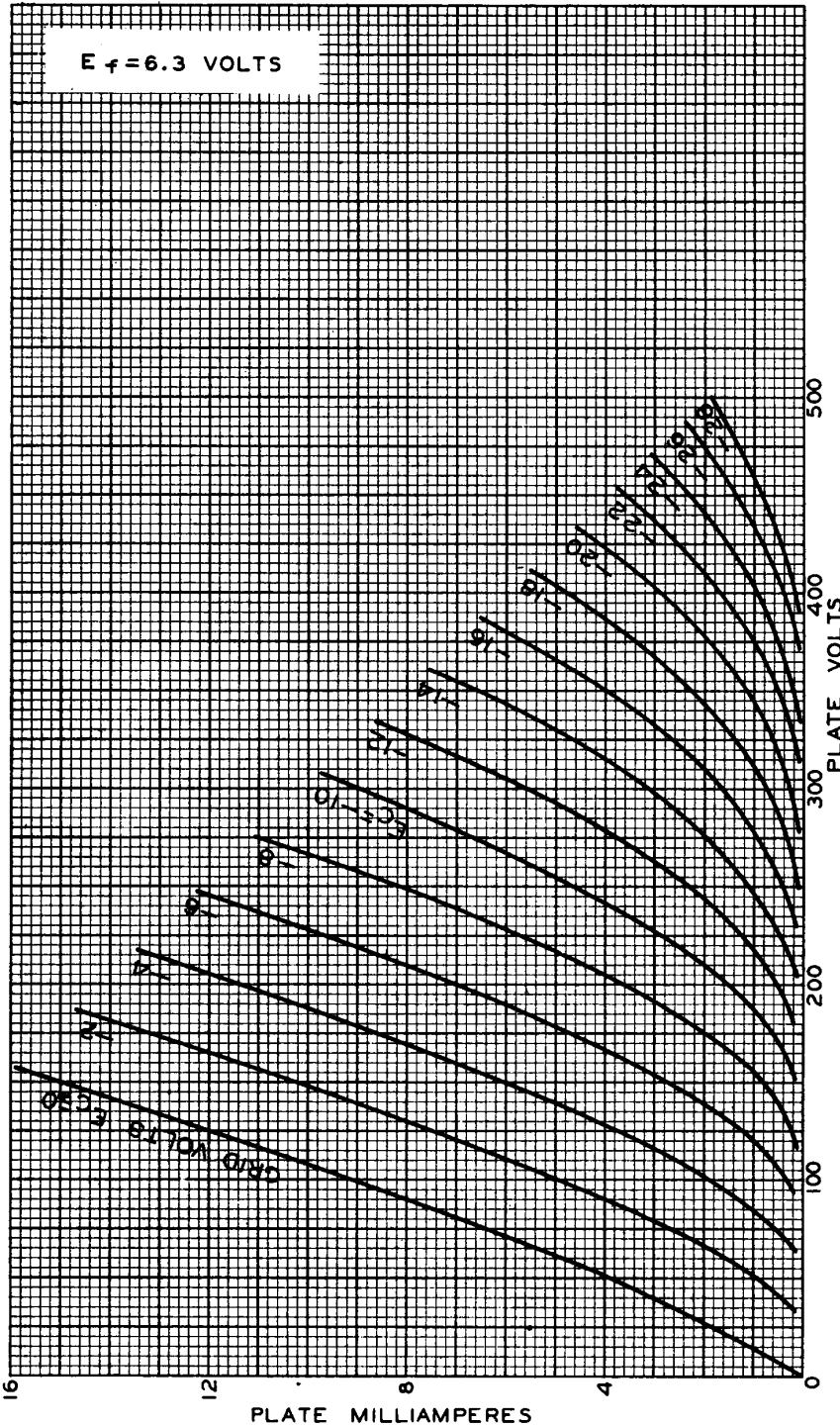
DATA

6C5



6C5

AVERAGE PLATE CHARACTERISTICS

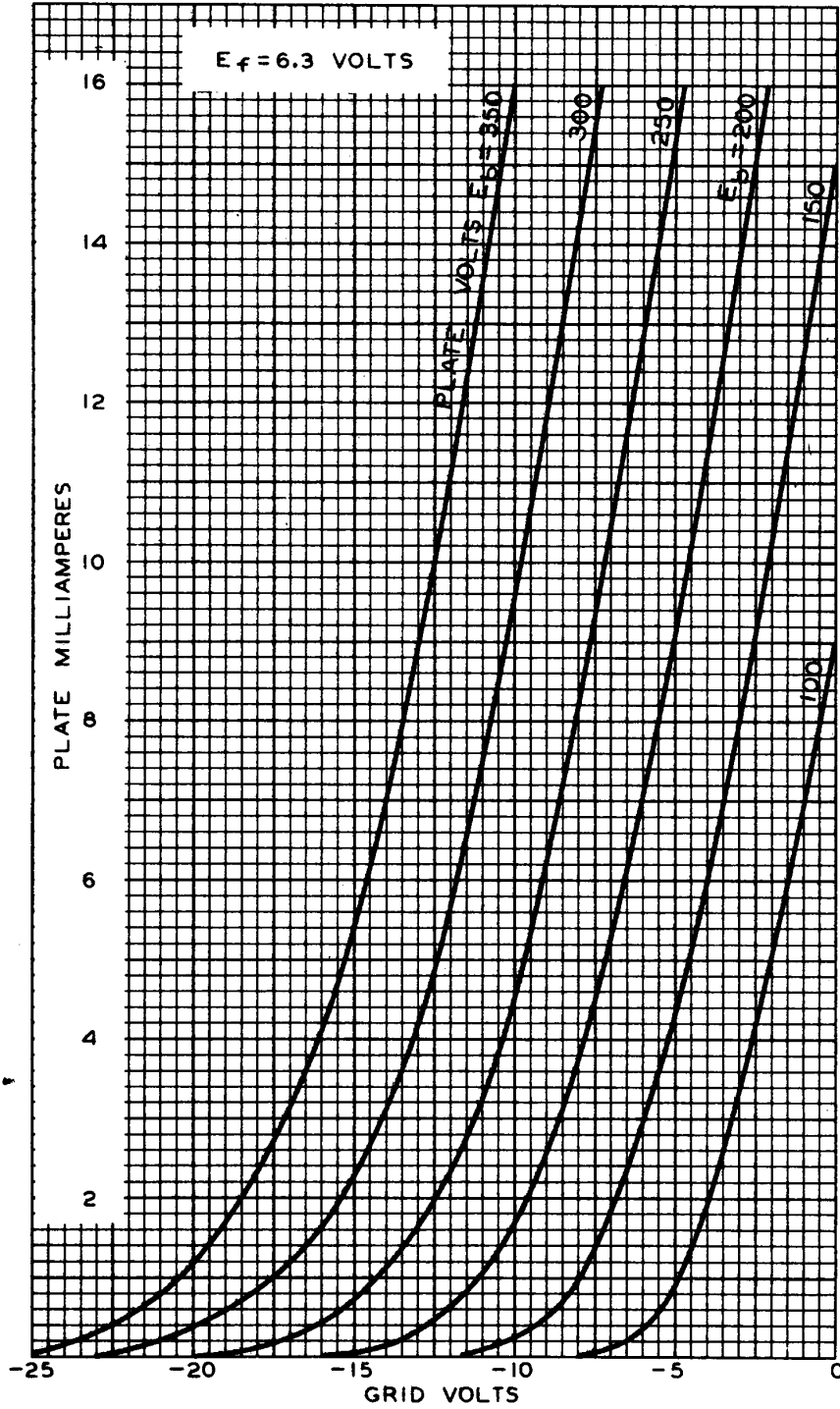


JULY 23, 1935

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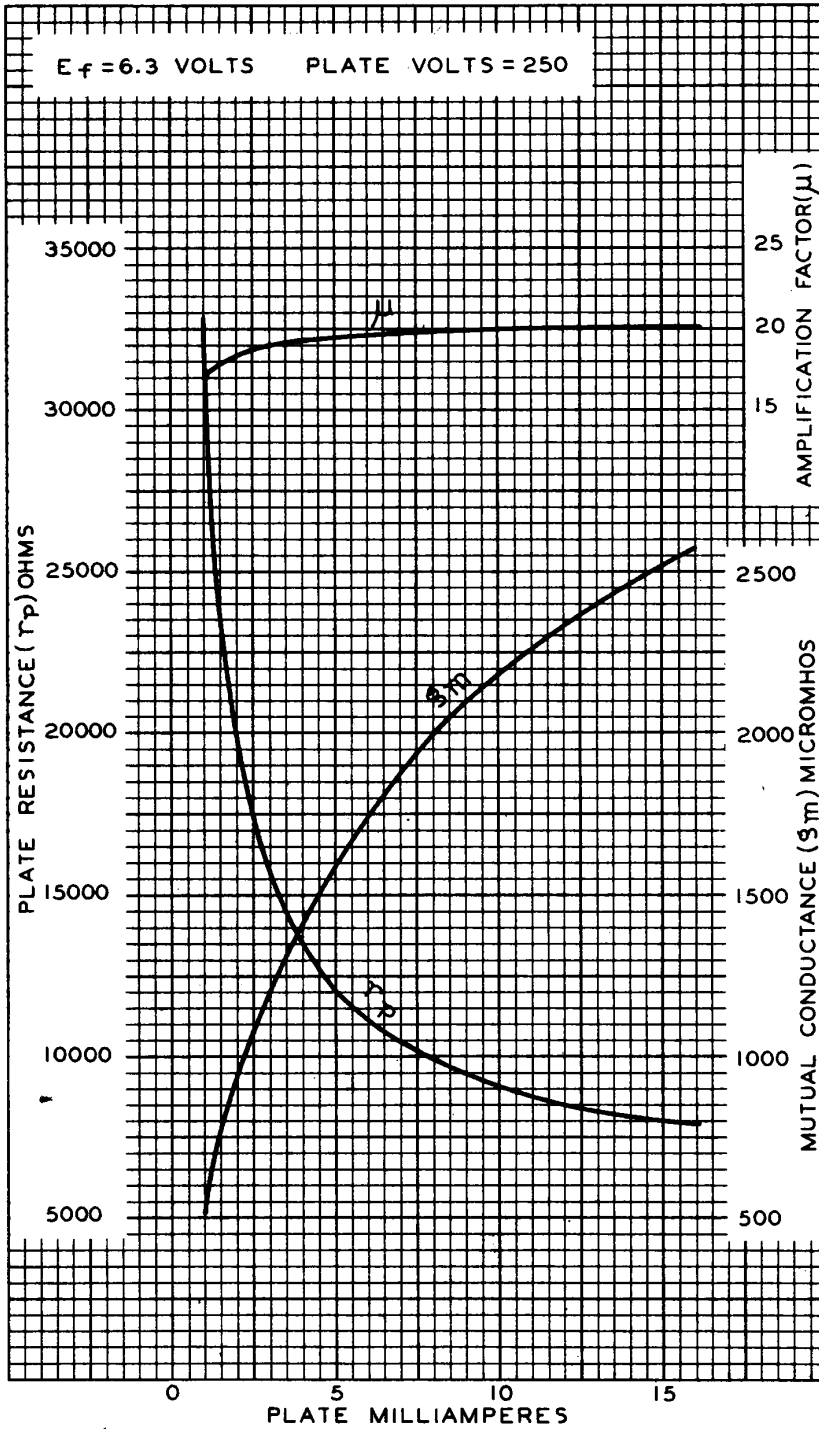
AVERAGE CHARACTERISTICS



6C5



AVERAGE CHARACTERISTICS



AUG. 23, 1935

RCA RADIOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.

92C-4462