



6SC7

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HIGH-MU TWIN TRIODE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

| | | |
|-------------------|-----|----------------|
| Voltage | 6.3 | ac or dc volts |
| Current | 0.3 | amp |

Direct Interelectrode Capacitances (Approx.):*

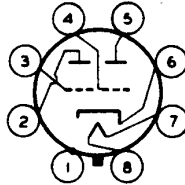
| | | |
|---|---|------------------|
| Grid to plate | 2 | $\mu\mu\text{f}$ |
| Grid to cathode, heater, and shell | 2 | $\mu\mu\text{f}$ |
| Plate to cathode, heater, and shell | 3 | $\mu\mu\text{f}$ |

Mechanical:

| | |
|----------------------------------|---|
| Mounting Position | Any |
| Maximum Overall Length | 2-5/8" |
| Maximum Seated Length | 2-1/16" |
| Maximum Diameter | 1-5/16" |
| Bulb | Metal Shell, MT-8 |
| Base | Small-Wafer Octal 8-Pin (JETEC No. B8-21) |

Basing Designation for BOTTOM VIEW 8S

| | |
|----------------------------|----------------------------|
| Pin 1 - Shell | Pin 5 - Plate of Unit No.1 |
| Pin 2 - Plate of Unit No.2 | Pin 6 - Cathode |
| Pin 3 - Grid of Unit No.2 | Pin 7 - Heater |
| Pin 4 - Grid of Unit No.1 | Pin 8 - Heater |



AMPLIFIER - Class A₁

Values are for Each Unit

Maximum Ratings, Design-Center Values:

| | | |
|---|----------|-------|
| PLATE VOLTAGE | 250 max. | volts |
| PEAK HEATER-CATHODE VOLTAGE: | | |
| Heater negative with respect to cathode | 90 max. | volts |
| Heater positive with respect to cathode | 90 max. | volts |

Characteristics:

| | | |
|--------------------------------------|-------|------------------|
| Plate Voltage | 250 | volts |
| Grid Voltage | -2 | volts |
| Amplification Factor | 70 | |
| Plate Resistance (Approx.) | 53000 | ohms |
| Transconductance (Approx.) | 1325 | μmhos |
| Plate Current | 2 | ma |

Typical Operation as Resistance-Coupled Amplifier:

See RESISTANCE-COUPLED AMPLIFIER CHART No. 17 at front of this Section

* values for each unit with pin 1 connected to pin 6.

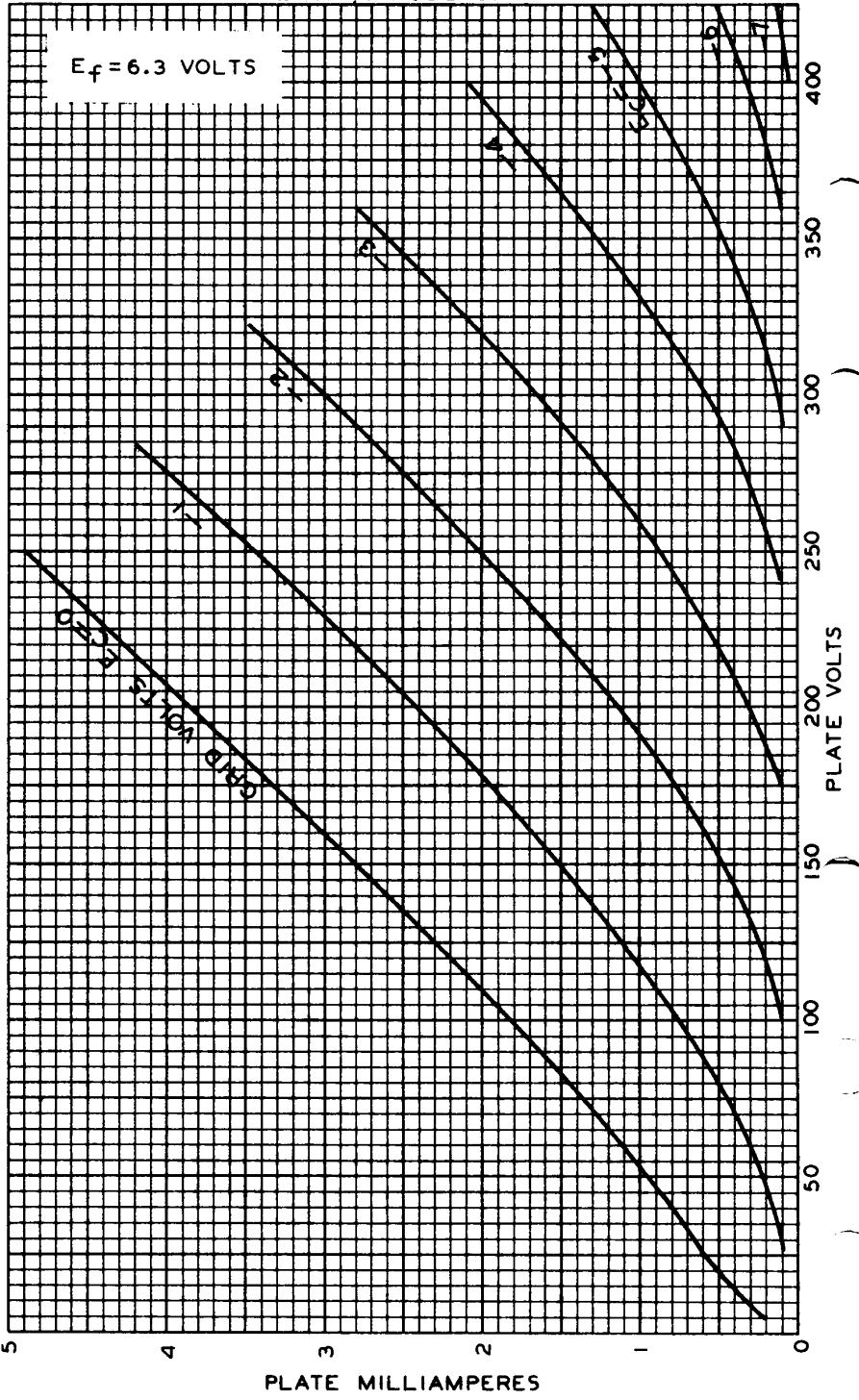
←Indicates a change.

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AVERAGE PLATE CHARACTERISTICS EACH TRIODE UNIT



OCT. 16, 1940

PLATE MILLIAMPERES
TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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