



6CS6

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PENTAGRID AMPLIFIER

7-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

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

Direct Interelectrode Capacitances (Approx.):^o

| | | | |
|--|-----------|------------------|---|
| Grid No.1 to plate | 0.07 max. | $\mu\mu\text{f}$ | ← |
| Grid No.3 to plate | 0.36 max. | $\mu\mu\text{f}$ | |
| Grid No.1 to grid No.3 | 0.22 max. | $\mu\mu\text{f}$ | ← |
| Grid No.1 to cathode & grid No.5, grid No.4 & grid No.2, grid No.3, and heater | 5.5 | $\mu\mu\text{f}$ | |
| Grid No.3 to cathode & grid No.5, grid No.4 & grid No.2, grid No.1, and heater | 7 | $\mu\mu\text{f}$ | |
| Plate to cathode & grid No.5, grid No.4 & grid No.2, grid No.3, grid No.1, and heater. | 7.5 | $\mu\mu\text{f}$ | |

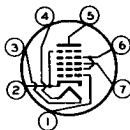
Characteristics, Class A₁ Amplifier:

| | | | |
|--|------|------|-----------------|
| Plate Voltage. | 100 | 100 | volts |
| Grid-No.2 & Grid-No.4 Voltage. . . . | 30 | 30 | volts |
| Grid-No.3 Voltage. | -1 | 0 | volt |
| Grid-No.1 Voltage. | 0 | -1 | volt |
| Plate Resistance (Approx.) | 0.7 | 1 | megohm |
| Grid-No.3-to-Plate Transconductance. | 1500 | - | μhos |
| Grid-No.1-to-Plate Transconductance. | - | 1100 | μhos |
| Plate Current. | 0.8 | 1 | ma |
| Grid-No.2 & Grid-No.4 Current. . . . | 5.5 | 1.3 | ma |
| Grid-No.3 Voltage (Approx.) for plate current of 50 μamp | -2.2 | - | volts |
| Grid-No.1 Voltage (Approx.) for plate current of 50 μamp | - | -2.5 | volts |

Mechanical:

| | |
|--|--|
| Mounting Position. | Any |
| Maximum Overall Length | 2-1/8" |
| Maximum Seated Length. | 1-7/8" |
| Length, Base Seat to Bulb Top (Excluding tip). | 1-1/2" \pm 3/32" |
| Maximum Diameter | 3/4" |
| Dimensional Outline. | See General Section |
| Bulb | T-5-1/2" |
| Base | Small-Button Miniature 7-Pin (JETEC No.E7-1) |
| Basing Designation for BOTTOM VIEW | 7CH |

- Pin 1 - Grid No.1
- Pin 2 - Cathode,
Grid No.5
- Pin 3 - Heater
- Pin 4 - Heater



- Pin 5 - Plate
- Pin 6 - Grid No.2,
Grid No.4
- Pin 7 - Grid No.3

^o without external shield.

← Indicates a change.



PENTAGRID AMPLIFIER

GATED AMPLIFIER SERVICE

Maximum Ratings, Design-Center Values:

| | | |
|--|--|-------|
| PLATE VOLTAGE. | 300 max. | volts |
| GRID-No.2 & GRID-No.4 SUPPLY VOLTAGE . . . | 300 max. | volts |
| GRID-No.2 & GRID-No.4 VOLTAGE. . . | See Grid-No.2 Input Rating Chart at front of Receiving Tube Section | |
| PLATE DISSIPATION. | 1 max. | watt |
| GRID-No.2 & GRID-No.4 INPUT: | | |
| For grid-No.2 & grid-No.4 voltages up to 150 volts. | 1 max. | watt |
| For grid-No.2 & grid-No.4 voltages between 150 and 300 volts. . . | See Grid-No.2 Input Rating Chart at front of Receiving Tube Section | |
| CATHODE CURRENT. | 14 max. | ma |
| PEAK HEATER-CATHODE VOLTAGE: | | |
| Heater negative with respect to cathode | 200 max. | volts |
| Heater positive with respect to cathode | 200 [▲] max. | volts |

Typical Operation as Sync Separator and Sync Clipper:

| | | |
|--|-----|-------|
| Plate Voltage. | 10 | volts |
| Grid-No.2 & Grid-No.4 Voltage. | 30 | volts |
| Grid-No.3 Voltage. | 0 | volts |
| Grid-No.1 Voltage. | 0 | volts |
| → Plate Current. | 2.0 | ma |
| → Grid-No.2 & Grid-No.4 Current. | 4.5 | ma |

Maximum Circuit Values:

| | | |
|--|-----------|---------|
| Grid-No.1-Circuit Resistance | 0.47 max. | megohm |
| Grid-No.3-Circuit Resistance | 2.2 max. | megohms |

▲ The dc component must not exceed 100 volts.

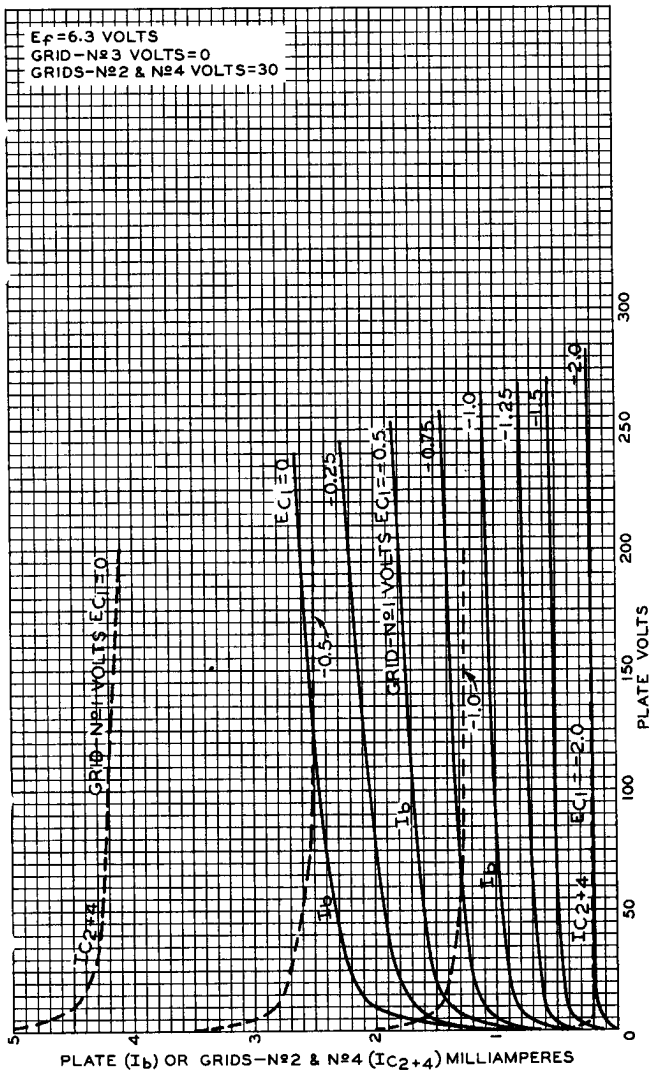
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AVERAGE CHARACTERISTICS



TUBE DIVISION

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

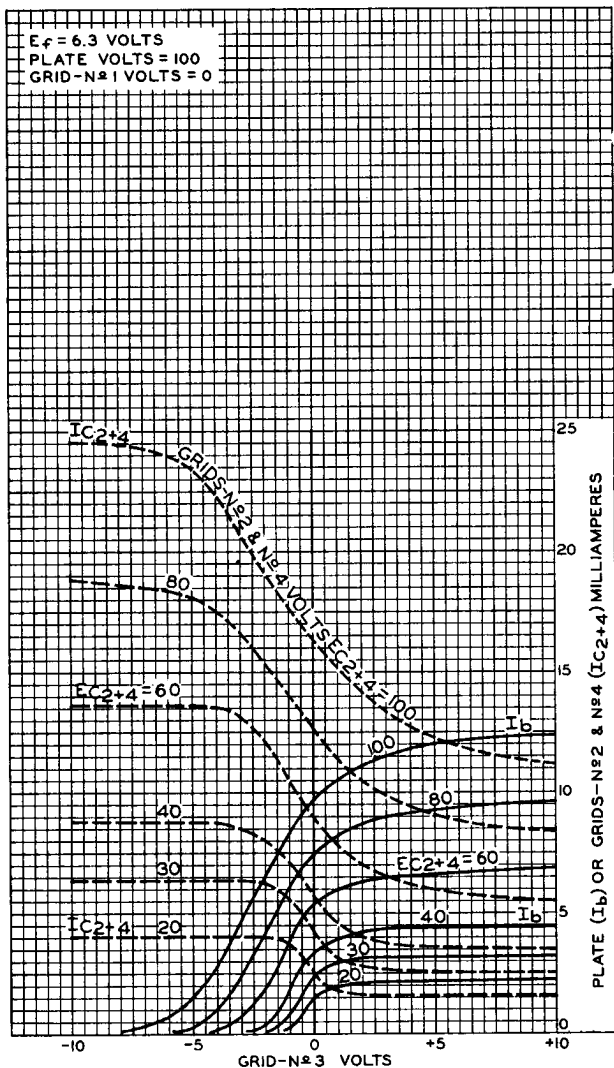
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