



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.):^oGrid 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 - μmhos ←Grid-No.1-to-Plate Transconductance. - 1100 μmhos ←

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 - voltsGrid-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

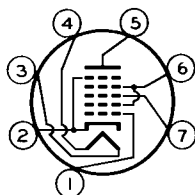
Pin 3 - Heater

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.



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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
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GRID-No.2 & GRID-No.4 INPUT:

For grid-No.2 & grid-No.4 voltages

up to 150 volts.	1	max.	watt
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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		
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CATHODE CURRENT.	14	max.	ma
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PEAK HEATER-CATHODE VOLTAGE:

Heater negative with

respect to cathode	200	max.	volts
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Heater positive with

respect to cathode	200 [▲]	max.	volts
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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.

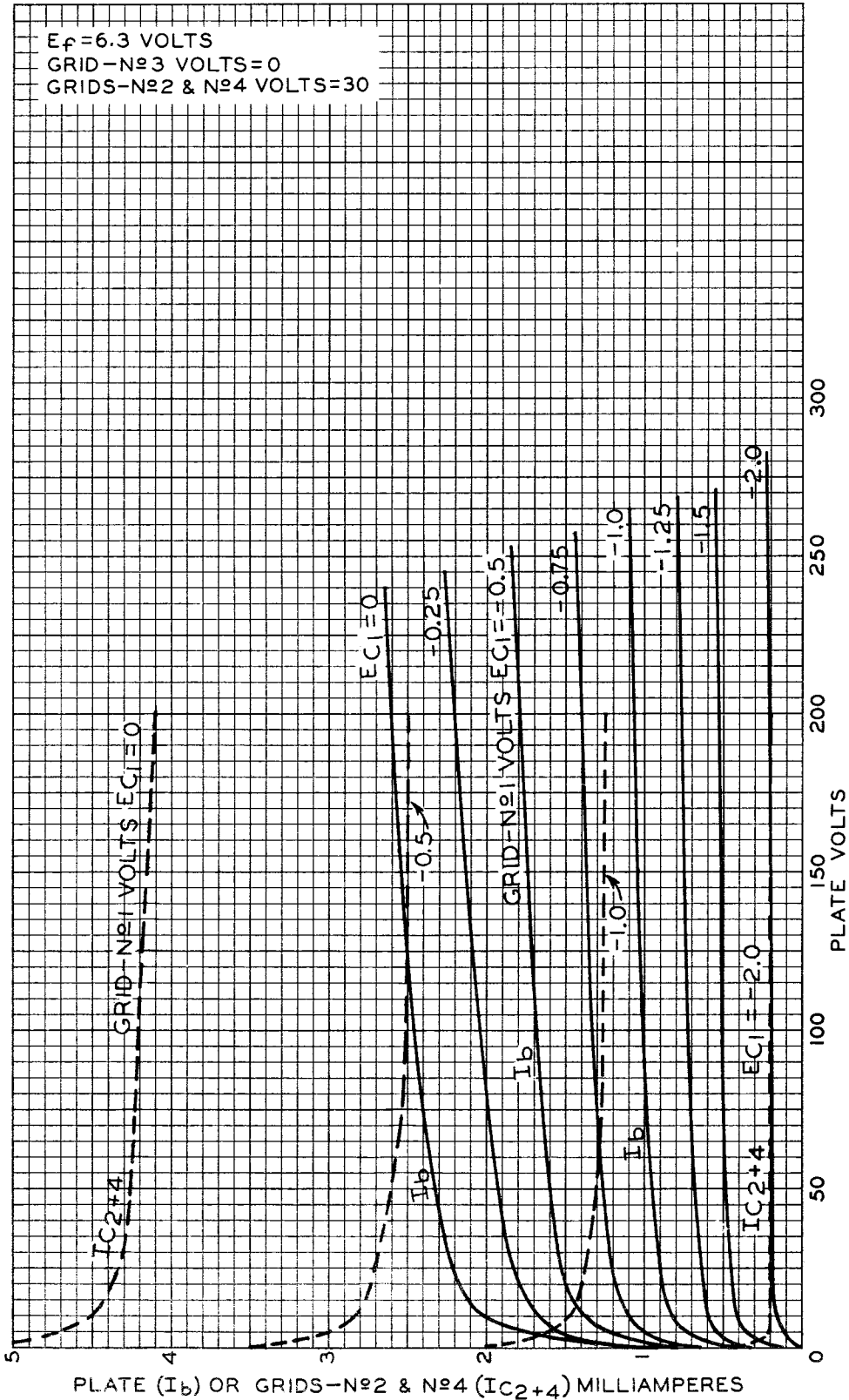
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AVERAGE CHARACTERISTICS



TUBE DIVISION

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

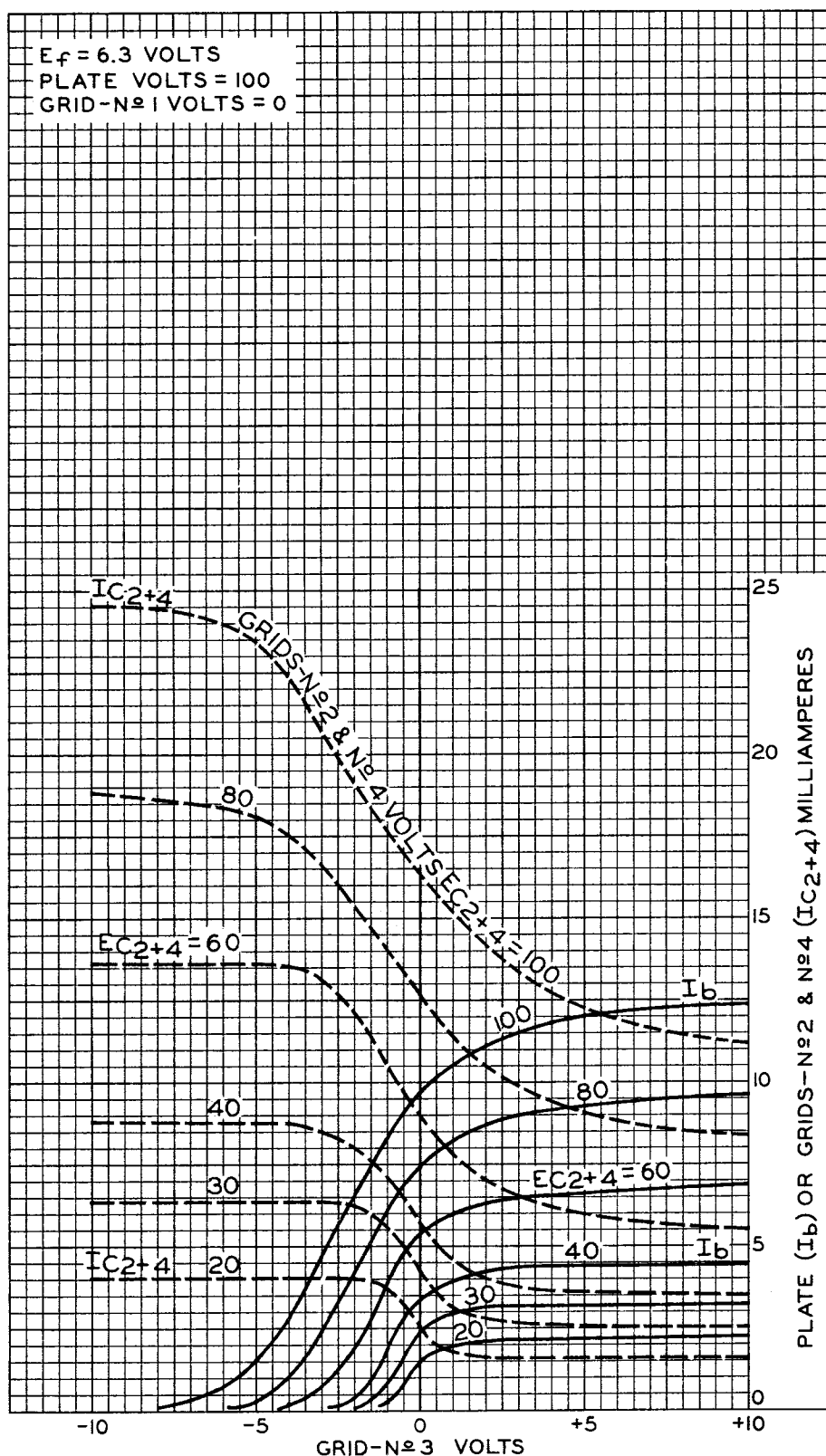
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AVERAGE CHARACTERISTICS



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