



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.	μf	←
Grid No.3 to plate	0.36 max.	μf	
Grid No.1 to grid No.3	0.22 max.	μf	←
Grid No.1 to cathode & grid No.5, grid No.4 & grid No.2, grid No.3, and heater	5.5	μf	
Grid No.3 to cathode & grid No.5, grid No.4 & grid No.2, grid No.1, and heater	7	μf	
Plate to cathode & grid No.5, grid No.4 & grid No.2, grid No.3, grid No.1, and heater.	7.5	μf	

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.



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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
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
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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.

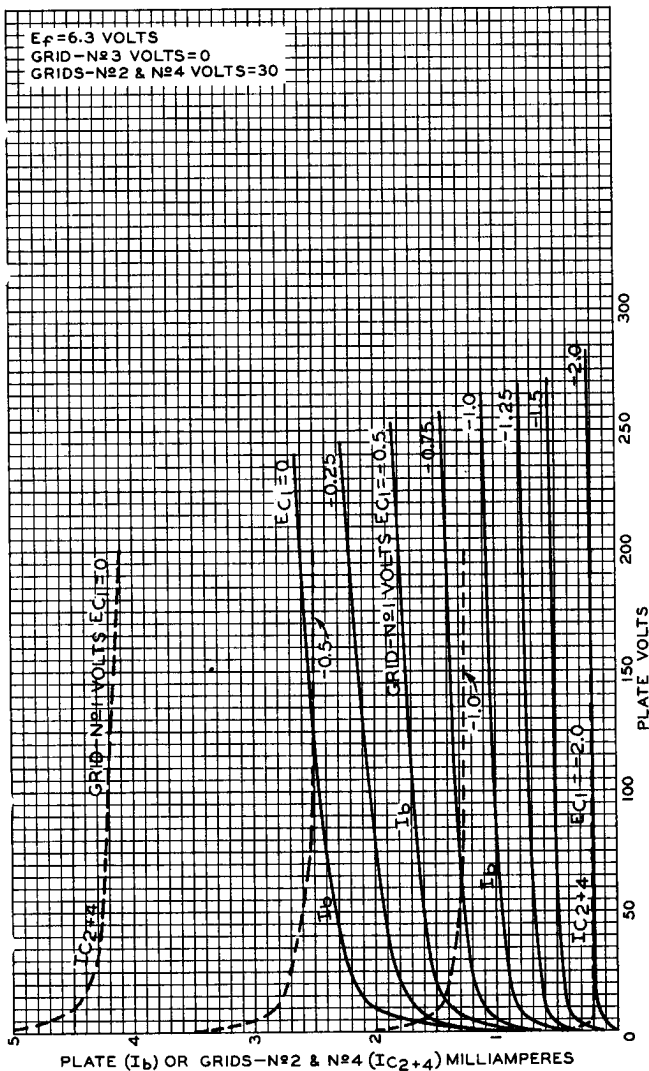
→ Indicates a change.



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AVERAGE CHARACTERISTICS



TUBE DIVISION

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-8922

92CM-8926