

35EH5

Power Pentode

7-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage (AC or DC) $35 \pm 10\%$ volts
 Current at 35 volts 0.15 amp

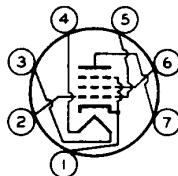
Direct Interelectrode Capacitances
 (Approx.):[▲]

Grid No.1 to plate 0.65 $\mu\mu\text{f}$
 Grid No.1 to cathode & grid No.3,
 grid No.2, and heater 17 $\mu\mu\text{f}$
 Plate to cathode & grid No.3,
 grid No.2, and heater 9 $\mu\mu\text{f}$

Mechanical:

Operating Position Any
 Maximum Overall Length 2-5/8"
 Maximum Seated Length 2-3/8"
 Length, Base Seat to Bulb Top (Excluding tip) $2" \pm 3/32"$
 Diameter 0.650" to 0.750"
 Dimensional Outline See *General Section*
 Bulb T5-1/2
 Base Small-Button Miniature 7-Pin (JEDEC No.E7-1)
 Basing Designation for BOTTOM VIEW 7CV

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



Pin 4 - Heater
 Pin 5 - Grid No.1
 Pin 6 - Grid No.2
 Pin 7 - Plate

AF POWER AMPLIFIER — Class A₁

Maximum Ratings, Design-Maximum Values:

PLATE VOLTAGE 150 max. volts
 GRID-No.2 (SCREEN-GRID) VOLTAGE 130 max. volts
 GRID-No.1 (CONTROL-GRID) VOLTAGE:
 Positive-bias value 0 max. volts
 GRID-No.2 INPUT 1.75 max. watts
 PLATE DISSIPATION 5 max. watts
 PEAK HEATER-CATHODE VOLTAGE:
 Heater negative with
 respect to cathode 200 max. volts
 Heater positive with
 respect to cathode 200[•] max. volts
 BULB TEMPERATURE (At hottest point
 on bulb surface). 225 max. °C



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Typical Operation and Characteristics:

Plate Supply Voltage.	110	volts	—
Grid-No.2 Supply Voltage.	115	volts	
Cathode Resistor.	62	ohms	
Peak AF Grid-No.1 Voltage	3	volts	
Zero-Signal Plate Current	32	ma	
Max.-Signal Plate Current	32	ma	
Zero-Signal Grid-No.2 Current	7.2	ma	
Max.-Signal Grid-No.2 Current	12	ma	
Plate Resistance (Approx.).	14000	ohms	—
Transconductance.	12000	μmhos	
Load Resistance	3000	ohms	
Total Harmonic Distortion	8	%	
Max.-Signal Power Output.	1.2	watts	

Maximum Circuit Values:

Grid-No.1-Circuit Resistance:

For fixed-bias operation.	0.1 max.	megohm	—
For cathode-bias operation.	0.5 max.	megohm	

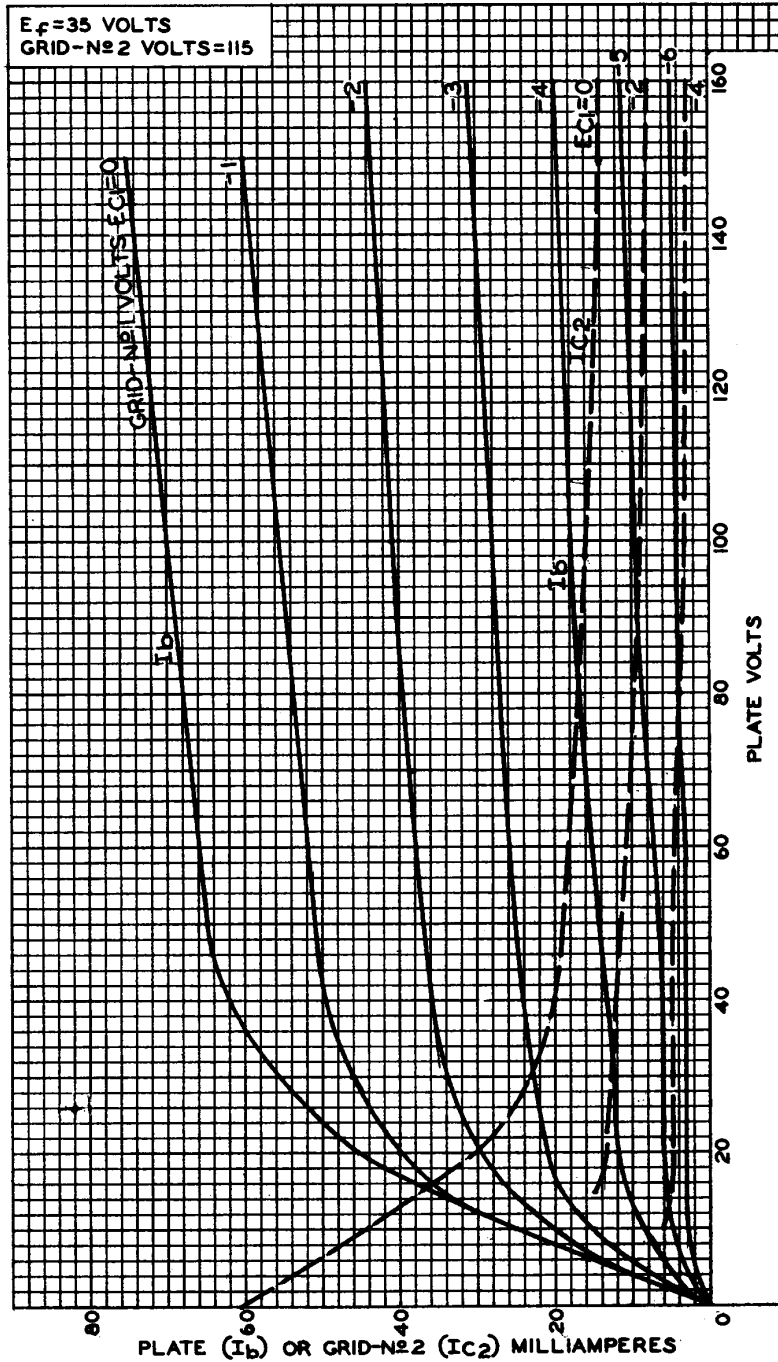
▲ without external shield.

● The dc component must not exceed 100 volts.



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AVERAGE CHARACTERISTICS



92CM-10551

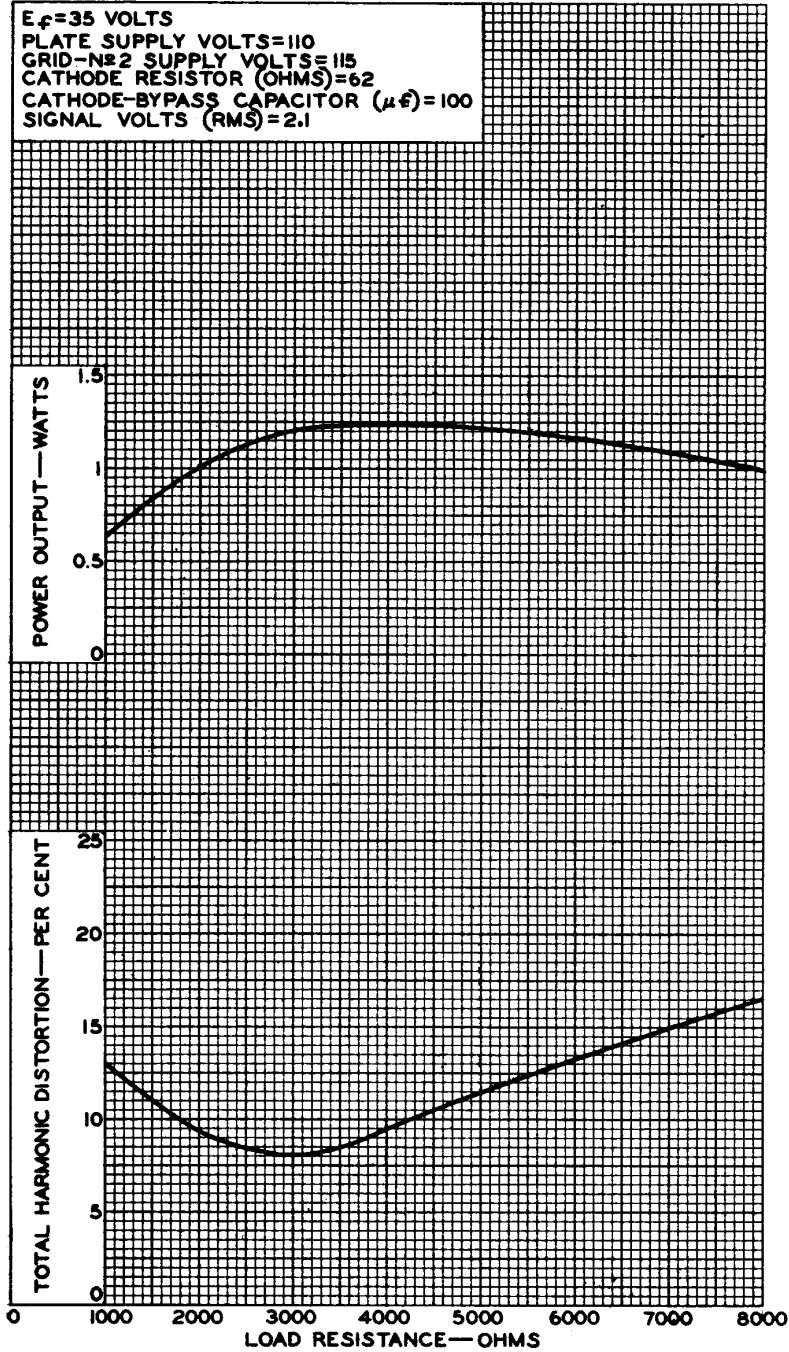


RADIO CORPORATION OF AMERICA
Electron Tube Division
Harrison, N. J.

DATA 2
8-60

35EH5

OPERATION CHARACTERISTICS



92CM-10547

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