

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 μf Grid No.1 to cathode & grid No.3,
grid No.2, and heater 17 μf Plate to cathode & grid No.3,
grid No.2, and heater 9 μf

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

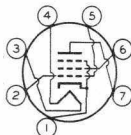
Base Small-Button Miniature 7-Pin (JEDEC No.E7-1)

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. voltsHeater positive with
respect to cathode 200[•] max. voltsBULB TEMPERATURE (At hottest point
on bulb surface) 225 max. °C

35EH5

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	μ mhos
Load Resistance	3000	ohms
Total Harmonic Distortion	8	%
Max.-Signal Power Output.	1.2	watts

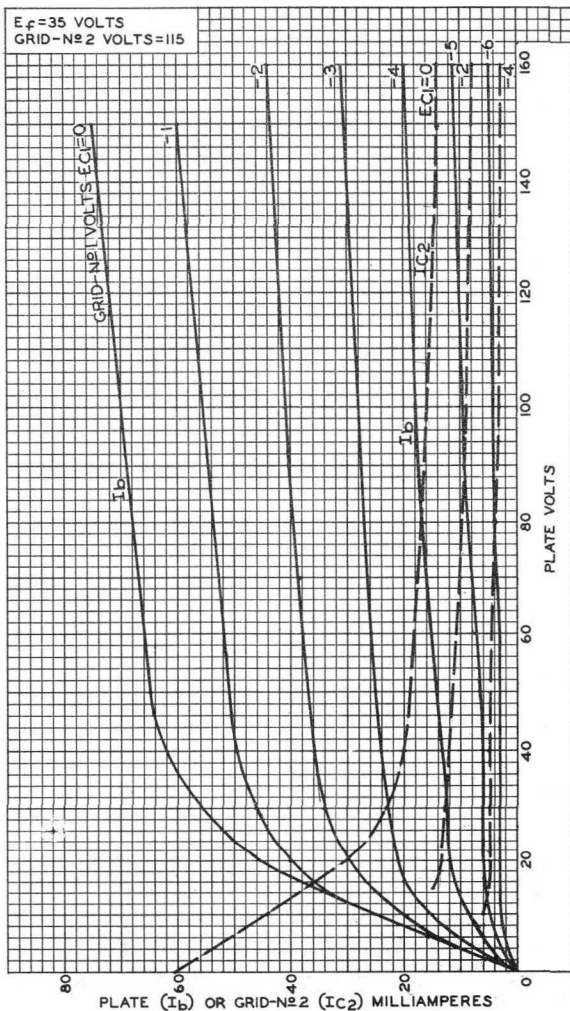
Maximum Circuit Values:

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.

AVERAGE CHARACTERISTICS

$E_f = 35$ VOLTS
 GRID-No 2 VOLTS = 115



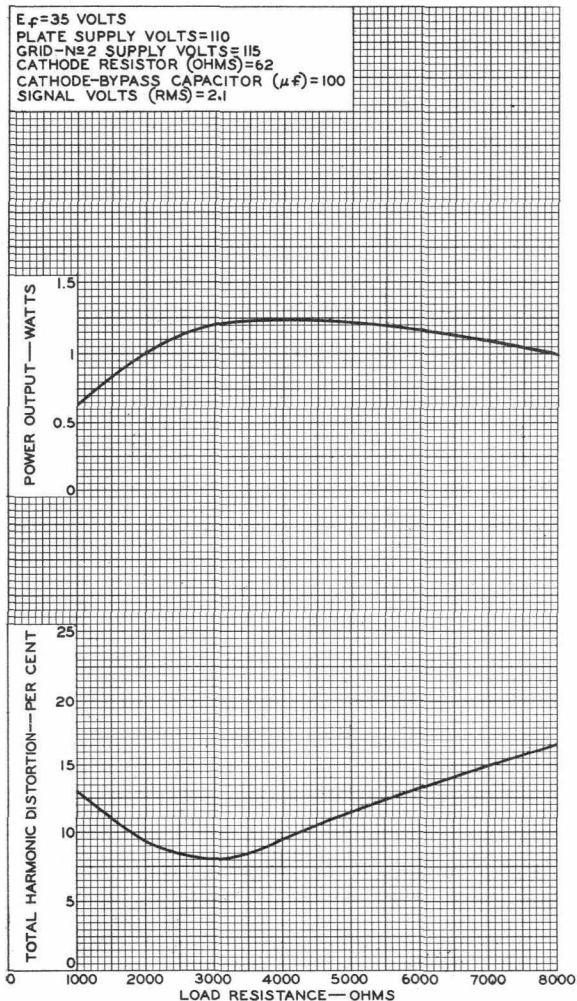
92CM-10551



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

DATA 2
 8-60

OPERATION CHARACTERISTICS



92CM-10547

