



6EH5

6EH5

POWER PENTODE

7-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage. 6.3 ac or dc volts
Current. 1.2 amp

Direct Interelectrode Capacitances (Approx.):^oGrid 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"

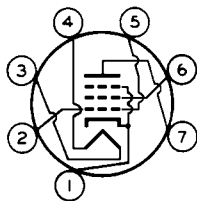
Dimensional Outline. See General Section

Bulb T5-1/2

Base Small-Button Miniature 7-Pin (JETEC 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

AMPLIFIER — Class A₁

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE. 135 max. volts

GRID-No.2 (SCREEN-GRID) VOLTAGE. 117 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) 220 max. °C

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

^o, [▲]: See next page.

6EH5



6EH5

POWER PENTODE

Zero-Signal Plate Current.	42	ma
Max.-Signal Plate Current.	42	ma
Zero-Signal Grid-No.2 Current.	11.5	ma
Max.-Signal Grid-No.2 Current.	14.5	ma
Plate Resistance (Approx.)	11000	ohms
Transconductance	14600	μ mhos
Load Resistance.	3000	ohms
Total Harmonic Distortion.	7	%
Max.-Signal Power Output	1.4	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

PUSH-PULL AF POWER AMPLIFIER — Class AB₁**Maximum Ratings, Design-Center Values:**

PLATE VOLTAGE.	150	max.	volts
GRID-No.2 (SCREEN-GRID) VOLTAGE.	130	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)	220	max.	°C

Typical Operation and Characteristics;*Values are for 2 tubes*

Plate-Supply Voltage	140	volts
Grid-No.2 Supply Voltage	120	volts
Cathode Resistor	68	ohms
Peak AF Grid-No.1-to-Grid-No.1 Voltage . .	9.4	volts
Zero-Signal Plate Current.	47	ma
Max.-Signal Plate Current.	51	ma
Zero-Signal Grid-No.2 Current.	11	ma
Max.-Signal Grid-No.2 Current.	17.7	ma
Effective Load Resistance (Plate to plate).	6000	ohms
Total Harmonic Distortion.	5	%
Max.-Signal Power Output	3.8	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.

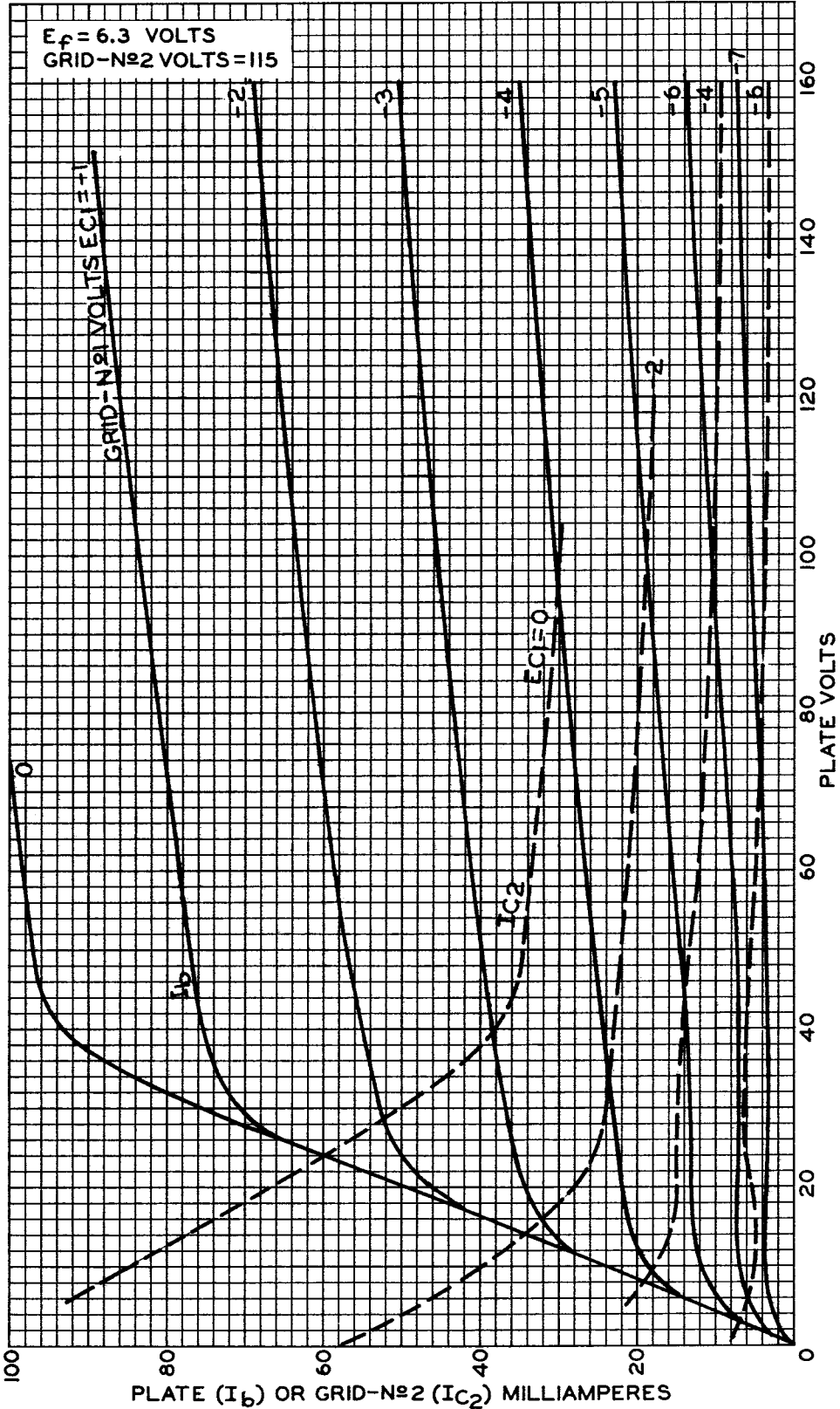
▲ The dc component must not exceed 100 volts.



6EH5

6EH5

AVERAGE CHARACTERISTICS



6EH5



6EH5

OPERATION CHARACTERISTICS

