



32ET5

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## POWER PENTODE

7-PIN MINIATURE TYPE

### GENERAL DATA

#### Electrical:

Heater, for Unipotential Cathode:

Voltage (AC or DC) . . . . . 32 ± 10% volts

Current . . . . . 0.1 amp

Direct Interelectrode Capacitances (Approx.):<sup>0</sup>

Grid No.1 to plate. . . . . 0.6 μf

Grid No.1 to cathode & grid No.3,  
grid No.2, and heater . . . . . 12 μf

Plate to cathode & grid No.3,  
grid No.2, and heater . . . . . 6 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" ± 3/32"

Diameter. . . . . 0.650" to 0.750"

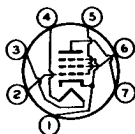
Dimensional Outline . . . . . See General Section

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

### AMPLIFIER — Class A<sub>1</sub>

#### Maximum Ratings, Design-Maximum Values:

PLATE VOLTAGE. . . . . 150 max. volts

GRID-No.2 (SCREEN-GRID) VOLTAGE. . . . . 130 max. volts

GRID-No.2 INPUT. . . . . 1.2 max. watts

PLATE DISSIPATION. . . . . 5.4 max. watts

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode. . . . . 200 max. volts

Heater positive with respect to cathode. . . . . 200<sup>▲</sup> max. volts

#### Typical Operation and Characteristics:

Plate Voltage. . . . . 110 volts

Grid-No.2 Voltage. . . . . 110 volts

Grid-No.1 Voltage. . . . . -7.5 volts

Peak AF Grid-No.1 Voltage. . . . . 7.5 volts

Zero-Signal Plate Current. . . . . 30 ma

Zero-Signal Grid-No.2 Current. . . . . 2.8 ma

Plate Resistance (Approx.) . . . . . 21500 ohms

Transconductance . . . . . 5500 μmhos

Load Resistance. . . . . 2800 ohms

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Total Harmonic Distortion. . . . .	10	%
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

<sup>o</sup> without external shield.

<sup>▲</sup> The dc component must not exceed 100 volts.