



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.):⁰

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"

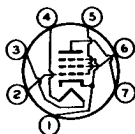
Dimensional Outline See General Section

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 A₁

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[▲] 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

^o without external shield.

[▲] The dc component must not exceed 100 volts.