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SHARP-CUTOFF PENTODE

7-PIN MINIATURE TYPE

DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage. 6.3 ac or dc volts

Current. 0.3 amp

Direct Interelectrode Capacitances:⁰Grid No.1 to plate 0.02 max. μf Grid No.1 to cathode, grid No.3 &
internal shield, grid No.2, and
heater 6.3 μf Plate to cathode, grid No.3 & internal
shield, grid No.2, and heater. 1.9 μf Characteristics, Class A₁ Amplifier:

Plate-Supply Voltage 125 volts

Grid-No.3. *Connected to cathode at socket*

Grid-No.2-Supply Voltage 125 volts

Cathode Resistor 56 ohms

Plate Resistance (Approx.) 0.35 megohm

Transconductance 9800 μmhos

Plate Current. 12 ma

Grid-No.2 Current. 3.8 ma

Grid-No.1 Voltage (Approx.) for
plate $\mu\text{a} = 20$ -6.5 volts

Mechanical:

Operating Position Any

Maximum Overall Length 2-1/8"

Maximum Seated Length. 1-7/8"

Length, Base Seat to Bulb Top (Excluding tip). 1-1/2" $\pm$ 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 7CM

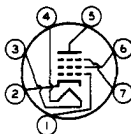
Pin 1-Grid No.1

Pin 2-Cathode

Pin 3-Heater

Pin 4-Heater

Pin 5-Plate



Pin 6-Grid No.2

Pin 7-Grid No.3,

Internal
ShieldAMPLIFIER — Class A₁

Maximum Ratings, Design-Maximum Values:

PLATE VOLTAGE. 330 max. volts

GRID-No.3 (SUPPRESSOR-GRID) VOLTAGE. 0 max. volts

GRID-No.2 (SCREEN-GRID) SUPPLY VOLTAGE 330 max. volts

⁰: See next page.

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GRID-No.2 VOLTAGE. See Grid-No.2 Input
Rating Chart at front of Receiving Tube Section

GRID-No.1 (CONTROL-GRID) VOLTAGE:

Positive-bias value. 0 max. volts

GRID-No.2 INPUT:

For grid-No.2 voltages up to

165 volts. 0.55 max. watt

For grid-No.2 voltages between

165 and 330 volts. See Grid-No.2 Input

Rating Chart at front of Receiving Tube Section

PLATE DISSIPATION. 2.3 max. watts

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with

respect to cathode 200 max. volts

Heater positive with

respect to cathode 200[▲]max. volts

Maximum Circuit Values:

Grid-No.1-Circuit Resistance:

For fixed-bias operation 0.25 max. megohm

For cathode-bias operation 1 max. megohm

⁰ Without external shield.

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

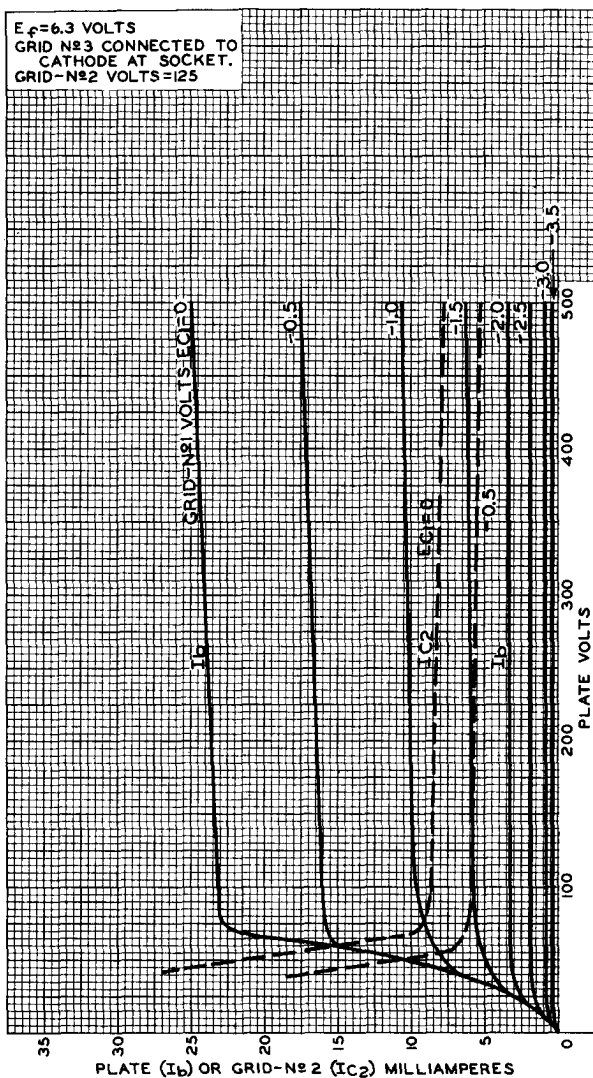


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AVERAGE CHARACTERISTICS

$E_f = 6.3$ VOLTS
GRID-Nº3 CONNECTED TO
CATHODE AT SOCKET.
GRID-Nº2 VOLTS = 125



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AVERAGE CHARACTERISTICS

