



12DZ6

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REMOTE-CUTOFF PENTODE

7-PIN MINIATURE TYPE

For use in automobile radio receivers operating directly from 6-cell storage-battery systems

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage range (DC). 10 to 15.9 volts

For longest life, it is recommended that the heater be operated within the voltage range of 11 to 14 volts.

Current (Approx.) at 12.6 volts 0.19 amp

Direct Interelectrode Capacitances:^o

Grid No.1 to plate. 0.05 max. $\mu\mu\text{f}$

Grid No.1 to cathode, grid No.3 & internal shield, grid No.2, and heater. . . . 9.5 $\mu\mu\text{f}$

Plate to cathode, grid No.3 & internal shield, grid No.2, and heater 4 $\mu\mu\text{f}$

Characteristics, Class A₁ Amplifier:

Heater Voltage. 12.6 volts

Plate Voltage 12.6 volts

Grid No.3 and Internal Shield. *Connected to cathode at socket*

Grid-No.2 Voltage 12.6 volts

Grid-No.1 Supply Voltage. 0 volts

Grid-No.1 Resistor (Bypassed) 10 megohms

Grid-No.3 Resistor (Bypassed) 10 megohms

Plate Resistance (Approx.). 25000 ohms

Transconductance. 3800 μmhos

Plate Current 4.5 ma

Grid-No.2 Current 2.2 ma

Grids No.1 and No.3 Supply Voltage

(Approx.) for transconductance, grid

No.1 to plate (μmhos) = 10. -10 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"

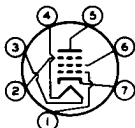
Dimensional Outline See General Section

Bulb. T5-1/2

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

Basing Designation for BOTTOM VIEW. 7BK

- Pin 1-Grid No.1
- Pin 2-Grid No.3,
Internal
Shield
- Pin 3-Heater



- Pin 4-Heater
- Pin 5-Plate
- Pin 6-Grid No.2
- Pin 7-Cathode

^o without external shield.

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AMPLIFIER — Class A₁

Maximum Ratings, Design-Maximum Values:

PLATE VOLTAGE.	16 max.	volts
GRID No.3 (SUPPRESSOR GRID). . .	<i>Connect to cathode at socket</i>	
GRID-No.2 (SCREEN-GRID) VOLTAGE.	16 max.	volts
GRID-No.1 (CONTROL-GRID) VOLTAGE:		
Positive-bias value.	0 max.	volts
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode. .	16 max.	volts
Heater positive with respect to cathode. .	16 max.	volts

Maximum Circuit Values:

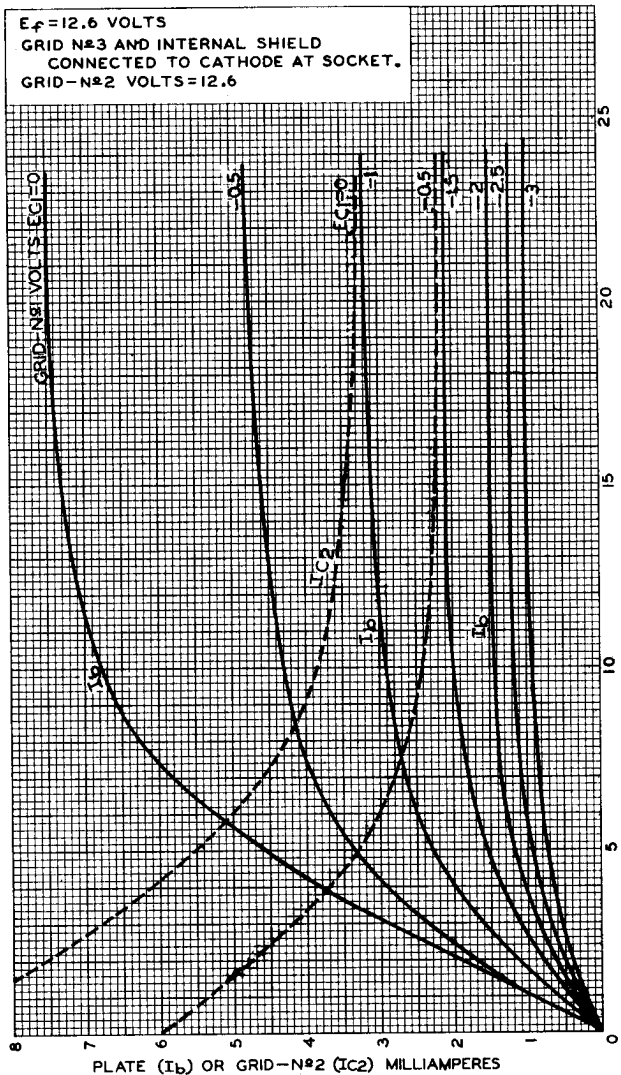
Grid-No.1-Circuit Resistance	10 max.	megohms
Grid-No.3-Circuit Resistance	10 max.	megohms



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AVERAGE CHARACTERISTICS



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AVERAGE CHARACTERISTICS

$E_f=12.6$ VOLTS
PLATE VOLTS=12.6
GRID N^o3 AND INTERNAL SHIELD
CONNECTED TO CATHODE AT
SOCKET.
GRID-N^o2 VOLTS=12.6

