



12CX6

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SHARP-CUTOFF PENTODE

7-PIN MINIATURE TYPE

For use in automobile radio receivers operating directly from 12-volt storage batteries

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage range. 10 to 15.9 dc volts

This voltage range is on an absolute basis. 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. 0.15 amp

Direct Interelectrode Capacitances:^o

Grid No.1 to plate 0.05 max. μ f

Grid No.1 to cathode, grid No.3,
grid No.2, and heater. 7.6 μ f

Plate to cathode, grid No.3,
grid No.2, and heater. 6.2 μ f

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"

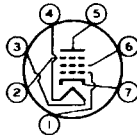
Dimensional Outline. See General Section

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
- Pin 3 - Heater
- Pin 4 - Heater



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

AMPLIFIER — Class A₁

Maximum Ratings, Design-Maximum Values:

PLATE VOLTAGE. 33 max. volts

GRID-No.2 (SCREEN-GRID) VOLTAGE. 33 max. volts

GRID-No.1 (CONTROL-GRID) VOLTAGE:
Positive-bias value. 0 max. volts

PEAK HEATER-CATHODE VOLTAGE:
Heater negative with respect to cathode. 30 max. volts
Heater positive with respect to cathode. 30 max. volts

Characteristics:

Heater Voltage 12.6 volts

Plate Voltage. 12.6 volts

^o Without external shield.

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Grid-No.3 (Suppressor-Grid) Voltage . . .	0	volts
Grid-No.2 Voltage	12.6	volts
Grid-No.1 Supply Voltage.	0	volts
Grid-No.1 Resistor (Bypassed)	2.2	megohms
Plate Resistance (Approx.)	40000	ohms
Transconductance.	3100	μ mhos
Plate Current	3	ma
Grid-No.2 Current	1.4	ma
Grid-No.1 Voltage (Approx.) for plate μ a = 10	-4.5	volts

Maximum Circuit Values:

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