



12CN5

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REMOTE-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. 0.45 amp

Direct Interelectrode Capacitance:

	Without External Shield	With External Shield ^o
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Grid No.1 to plate	0.25 max.	0.2 max.	μf
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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" $\pm$ 3/32"

Diameter 0.650" to 0.750"

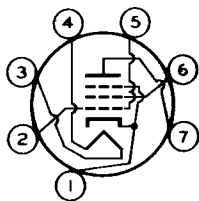
Dimensional Outline. See General Section

Bulb T5-1/2

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

Basing Designation for BOTTOM VIEW 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-Center Values:

PLATE VOLTAGE. 16 max. volts

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

Characteristics with 12.6 Volts on Heater:

Plate Voltage. 12.6 volts

Grid-No.2 Voltage. 12.6 volts

^o with external shield JEDEC No.316 connected to pin 1.

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Grid-No.1 Supply Voltage.	0	volts
Grid-No.1 Resistor (Bypassed)	2.2	megohms
Plate Resistance (Approx.)	40000	ohms
Transconductance.	3800	μ mhos
Plate Current	4.5	ma
Grid-No.2 Current	3.5	ma

Maximum Circuit Values:

Grid-No.1-Circuit Resistance.	2.2 max. megohms
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