



14C7

SHARP-CUTOFF PENTODE

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GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage. . . . . 12.6^□ . . . . . ac or dc volts
Current. . . . . 0.15^□□ . . . . . amp

Direct Interelectrode Capacitances:°

Grid No.1 to Plate . . . 0.007 max. . . . . μf
Input. . . . . 6.0 . . . . . μf
Output . . . . . 6.5 . . . . . μf

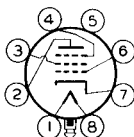
° with external shield connected to cathode.

Mechanical:

Mounting Position. . . . . Any
Maximum Overall Length . . . . . 2-25/32"
Maximum Seated Length. . . . . 2-1/4"
Maximum Diameter . . . . . 1-3/16"
Bulb . . . . . T-9
Base . . . . . Lock-in 8-Pin

Basing Designation for BOTTOM VIEW . . . . . 8V

- Pin 1 - Heater
Pin 2 - Plate
Pin 3 - Grid No.2
Pin 4 - Grid No.3
Pin 5 - Internal Shield



- Pin 6 - Grid No.1
Pin 7 - Cathode
Pin 8 - Heater

Plug - Base
Shell

AMPLIFIER - Class A1

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE. . . . . 300 max. volts
GRID-No.2 (SCREEN) VOLTAGE . . . . . 100 max. volts
GRID-No.2 SUPPLY VOLTAGE . . . . . 300 max. volts
GRID-No.1 (CONTROL-GRID) VOLTAGE:
Positive bias value. . . . . 0 max. volts
PLATE DISSIPATION. . . . . 1 max. watt
GRID-No.2 DISSIPATION. . . . . 0.1 max. watt
PEAK HEATER-CATHODE VOLTAGE:
Heater negative with respect to cathode . . . . . 90 max. volts
Heater positive with respect to cathode . . . . . 90 max. volts

Typical Operation and Characteristics:

Plate Voltage. . . . . 100 250 volts
Grid No.3. . . . . Connected to cathode at socket
Internal Shield . . . . . Connected to cathode at socket
Grid-No.2 Voltage. . . . . 100 100 volts
Grid-No.1 Voltage. . . . . -1 -3 volts
Cathode-Bias Resistor. . . . . 130 100 ohms
Plate Resistance (Approx.) . . . . . 0.1 # megohm

□ Nominal voltage = 14.0 volts.

□□ Nominal current = 0.16 ampere.

# Greater than 1 megohm.

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(continued from preceding page)

Transconductance . . . . .	2275	1575	$\mu$ mos
Grid-No.1 Bias (Approx.) for cathode-current cutoff. . . . .	-7	-7	volts
Plate Current. . . . .	5.7	2.2	ma
Grid-No.2 Current. . . . .	1.8	0.7	ma