



14C7

SHARP-CUTOFF PENTODE

14C7

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

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

Direct Interelectrode Capacitances:°

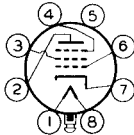
Grid No.1 to Plate . . . 0.007 max. μf
Input. 6.0 μf
Output 6.5 μf

° 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	μ 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