

14C7

Sharp-Cutoff Pentode

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage (AC or DC) 12.6[▲] volts
Current at 12.6 volts 0.15[●] amp

Direct Interelectrode Capacitances:★

Grid No.1 to plate. 0.007 max. μ f
Grid No.1 to cathode, grid No.3,
grid No.2, internal shield, and
heater. 6 μ f
Plate to cathode, grid No.3,
grid No.2, internal shield, and
heater. 6.5 μ f

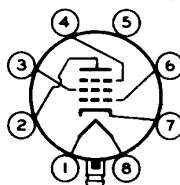
Characteristics, Class A₁ Amplifier:

Plate Supply Voltage. 100 250 volts
Grid No.3 *Connected to cathode at socket*
Internal Shield *Connected to cathode at socket*
Grid-No.2 Supply Voltage. 100 100 volts
Grid-No.1 Supply Voltage. -1 -3 volts
Cathode Resistor. 130 100 ohms
Plate Resistance (Approx.). 0.325 $\diamond$ megohm
Transconductance. 2275 1575 μ hos
Plate Current 5.7 2.2 ma
Grid No.2 Current 1.8 0.7 ma
Grid-No.1 Voltage (Approx.) for
cathode-current cutoff. -7 -7 volts

Mechanical:

Operating Position. Any
Maximum Overall Length. 2-25/32"
Maximum Seated Length 2-1/4"
Maximum Diameter. 1-3/16"
Dimensional Outline See *General Section*
Bulb. T9
Base. Lock-in 8-Pin (JEDEC No.D8-1)
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.3 (SUPPRESSOR GRID) . . . *Connect to cathode at socket*
GRID-No.2 (SCREEN-GRID) SUPPLY
VOLTAGE 300 max. volts



RADIO CORPORATION OF AMERICA
Electron Tube Division
Harrison, N. J.

DATA
1-61

14C7

GRID-No.2 VOLTAGE. 100 max. volts
GRID-No.1 (CONTROL-GRID) VOLTAGE:
Positive-bias value. 0 max. volts
GRID-No.2 INPUT. 0.1 max. watt
PLATE DISSIPATION. 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

- ▲ Nominal voltage = 14 volts.
- Nominal current = 0.16 ampere.
- ★ With external shield JEDEC No.308 connected to cathode.
- ◆ Greater than 1 megohm.

14F7

High-Mu Twin Triode

The 14F7 is the same as the 7F7 except for the following items:

Heater, for Unipotential Cathodes:

Voltage (AC or DC) 12.6[▲] volts
Current at 12.6 volts. 0.15[●] amp

14F8

Medium-Mu Twin Triode

The 14F8 is the same as the 7F8 except for the following items:

Heater, for Unipotential Cathodes:

Voltage (AC or DC) 12.6[▲] volts
Current at 12.6 volts. 0.15[●] amp

- ▲ Nominal voltage = 14 volts.
- Nominal current = 0.16 ampere.

