

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. | μf |
| Grid No.1 to cathode, grid No.3, grid No.2, internal shield, and heater. | 6 | μf |
| Plate to cathode, grid No.3, grid No.2, internal shield, and heater. | 6.5 | μf |

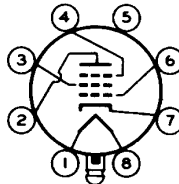
Characteristics, Class A₁ Amplifier:

| | | | |
|--------------------------------------------------------------------|---------------------------------------|------|--------|
| Plate Supply Voltage. | 100 | 250 | volts |
| Grid No.3 | <i>Connected to cathode at socket</i> | | |
| Internal Shield | <i>Connected to cathode at socket</i> | | |
| 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 | ♦ | megohm |
| Transconductance. | 2275 | 1575 | μmhos |
| 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 <i>General Section</i> |
| 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) | <i>Connect to cathode at socket</i> | |
| 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.

