

# 6EJ7

## Sharp-Cutoff Pentode

### 9-PIN MINIATURE TYPE

#### GENERAL DATA

#### Electrical:

Heater Characteristics and Ratings (*Design-Center Values*):

Voltage (AC or DC) . . . . . 6.3 ± 0.6 volts

Current at heater volts = 6.3 . . . . . 0.300 amp

Peak heater-cathode voltage:

Heater negative with respect to cathode . . . . . 150 max. volts

Heater positive with respect to cathode . . . . . 150 max. volts

Direct Interelectrode Capacitances:<sup>a</sup>

Grid No.1 to plate . . . . . 0.005 max. μf

Grid No.1 to cathode, grid No.3, grid No.2, internal shield, and heater . . . . . 10 μf

Plate to cathode, grid No.3, grid No.2, internal shield, and heater . . . . . 3 μf

#### Characteristics, Class A<sub>1</sub> Amplifier:

Plate Voltage . . . . . 190 200 volts

Grid No.3 . . . . . *Connected to cathode at socket*

Grid-No.2 Voltage . . . . . 190 200 volts

Grid-No.1 Voltage . . . . . -2.35 -2.5 volts

Plate Resistance (Approx.) . . . . . 0.35 0.35 megohm

Transconductance . . . . . 15000 15000 μmhos

Plate Current . . . . . 10 10 ma

Grid-No.2 Current . . . . . 4.1 4.1 ma

#### Mechanical:

Operating Position . . . . . Any

Type of Cathode . . . . . Coated Unipotential

Maximum Overall Length . . . . . 2-13/32"

Maximum Seated Length . . . . . 2-5/32"

Length, Base Seat to Bulb Top (Excluding tip) . . . . . 1-25/32" ± 3/32"

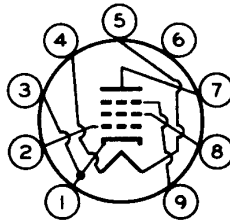
Diameter . . . . . 0.750" to 0.875"

Bulb . . . . . T6-1/2

Base . . . . . Small-Button Noval 9-Pin (JEDEC No.E9-1)

Basing Designation for BOTTOM VIEW . . . . . 9AQ

- Pin 1 - Cathode
- Pin 2 - Grid No.1
- Pin 3 - Cathode
- Pin 4 - Heater
- Pin 5 - Heater



- Pin 6 - Internal Shield
- Pin 7 - Plate
- Pin 8 - Grid No.2
- Pin 9 - Grid No.3



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## AMPLIFIER — Class A<sub>1</sub>

### Maximum Ratings, Design-Center Values:

|   |                                     |       |
|---|-------------------------------------|-------|
| PLATE SUPPLY VOLTAGE . . . . .              | 550 max.                            | volts |
| PLATE VOLTAGE . . . . .                     | 250 max.                            | volts |
| GRID No.3 (SUPPRESSOR GRID) . . . . .       | <i>Connect to cathode at socket</i> |       |
| GRID-No.2 (SCREEN-GRID) SUPPLY VOLTAGE. . . | 550 max.                            | volts |
| GRID-No.2 VOLTAGE . . . . .                 | 250 max.                            | volts |
| CATHODE CURRENT . . . . .                   | 25 max.                             | ma    |
| GRID-No.2 INPUT . . . . .                   | 0.9 max.                            | watt  |
| PLATE DISSIPATION . . . . .                 | 2.5 max.                            | watts |

### Maximum Circuit Values:

|                                       |        |        |
|---------------------------------------|--------|--------|
| Grid-No.1-Circuit Resistance. . . . . | 1 max. | megohm |
|---------------------------------------|--------|--------|

<sup>a</sup> Without external shield.

