



6FV6

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SHARP-CUTOFF TETRODE

7-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage. 6.3 $\pm$ 10% . . . ac or dc volts

Current. 0.2 amp

Direct Interelectrode Capacitances:^oGrid No.1 to plate 0.03 max. μ mfGrid No.1 to cathode, grid No.2,
internal shield, and heater. 4.5 μ mfPlate to cathode, grid No.2,
internal shield, and heater. 3 μ mfCathode to heater. 2.7[•] μ mfCharacteristics, Class A₁ Amplifier:

Plate Voltage. 125 volts

Grid-No.2 (Screen-grid) Voltage. 80 volts

Grid-No.1 (Control-grid) Voltage -1 volt

Plate Resistance (Approx.) 0.1 megohm

Transconductance 8000 μ mhos

Plate Current. 10 ma

Grid-No.2 Current. 1.5 ma

Grid-No.1 Voltage (Approx.) for
plate μ a = 20. -6 volts

Mechanical:

Operating Position Any

Maximum Overall Length 2-1/8"

Maximum Seated Length. 1-7/8"

Length, Base Seat to Bulb Top (Excluding tip). 1-1/2" $\pm$ 3/32"

Diameter 0.650" to 0.750"

Dimensional Outline. See General Section

Bulb T5-1/2

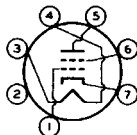
Base Small-Button Miniature 7-Pin (JEDEC No.E7-1)

Basing Designation for BOTTOM VIEW 7FQ

Pin 1-Grid No.1

Pin 2-Internal
Shield

Pin 3-Heater



Pin 4-Heater

Pin 5-Plate

Pin 6-Grid No.2

Pin 7-Cathode

AMPLIFIER — Class A₁

Maximum Ratings, Design-Maximum Values:

PLATE VOLTAGE. 275 max. volts

GRID-No.2 (SCREEN-GRID) SUPPLY VOLTAGE 180 max. volts

GRID-No.2 VOLTAGE. See Grid-No.2 Input Rating Chart
at front of Receiving Tube Section

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GRID-No.1 (CONTROL-GRID) VOLTAGE:

Positive-bias value. 0 max. volts

CATHODE CURRENT. 20 max. ma

GRID-No.2 INPUT:

For grid-No.2 voltages up to

90 volts 0.5 max. watt

For grid-No.2 voltages between

90 and 180 volts See Grid-No.2 Input Rating Chart

at front of Receiving Tube Section

PLATE DISSIPATION. 2 max. watts

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode. 200 max. volts

Heater positive with respect to cathode. 200* max. volts

Maximum Circuit Values:

Grid-No.1-Circuit Resistance 0.5 max. megohm

O With external shield JEDEC No.316 connected to cathode except as noted.

• With external shield JEDEC No.316 connected to ground.

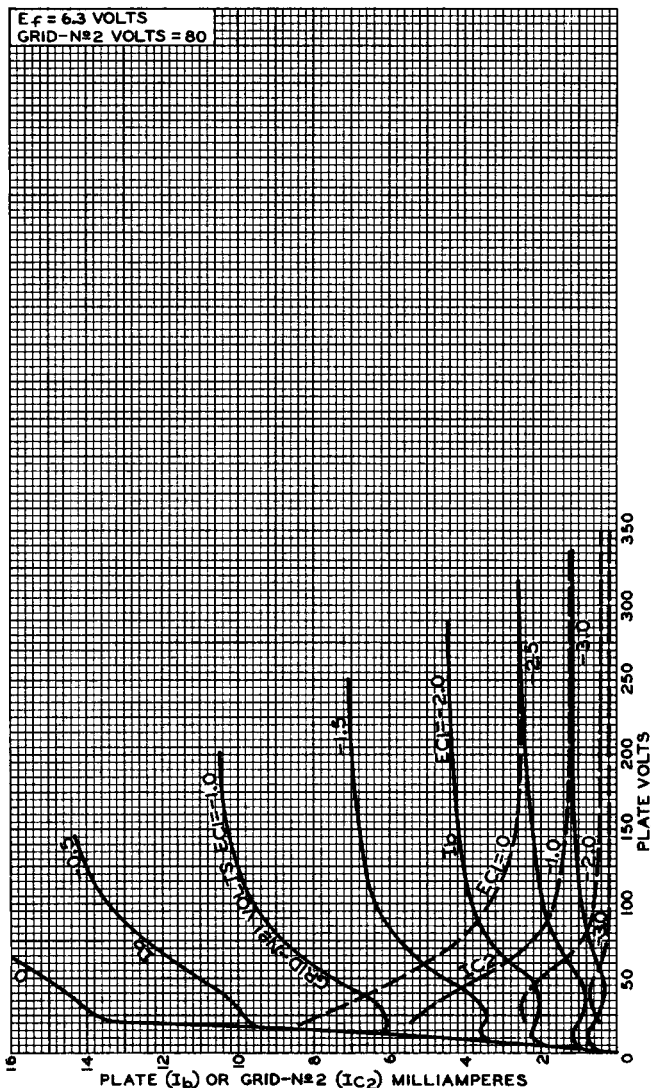
* The dc component must not exceed 100 volts.



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AVERAGE CHARACTERISTICS



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$E_f = 6.3$ VOLTS
PLATE VOLTS = 125
GRID-Nº2 VOLTS = 80

