



6CF6

SHARP-CUTOFF PENTODE

7-PIN MINIATURE TYPE

6CF6

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage (AC or DC)	6.3 ± 10%	volts
Current	0.3	amp

Direct Interelectrode Capacitances:

	<i>Without External Shield</i>	<i>With External Shield⁰</i>	
Grid No.1 to plate.	0.025 max.	0.015 max.	μmf
Grid No.1 to cathode & grid No.3 & internal shield, grid No.2, and heater.	6.5	6.5	μmf
Plate to cathode & grid No. 3 & internal shield, grid No.2, and heater . . .	2	3	μmf

Characteristics, Class A₁ Amplifier:

Plate Supply Voltage.	125	volts
Grid No.3	<i>Connected to cathode at socket</i>	
Grid-No.2 Supply Voltage.	125	volts
Cathode Resistor.	56	ohms
Plate Resistance (Approx.)	0.3	megohm
Transconductance.	7800	μmhos
Plate Current	12.5	ma
Grid-No.2 Current	3.7	ma
Grid-No.1 Voltage (Approx.) for plate $\mu a = 20$	-6	volts
Grid-No.1 Voltage (Approx.) for plate $ma. = 2.2$, and cathode resistor (ohms) = 0	-3	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" ± 3/32"
Diameter.	0.650" to 0.750"
Dimensional Outline	<i>See General Section</i>
Bulb.	T5-1/2
Base.	Small-Button Miniature 7-Pin (JEDEC No.E7-1)

← Indicates a change.

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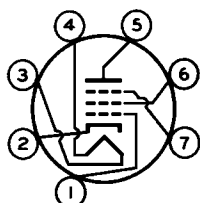


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Basing Designation for BOTTOM VIEW. 7CM

Pin 1—Grid No.1
 Pin 2—Cathode
 Pin 3—Heater
 Pin 4—Heater
 Pin 5—Plate



Pin 6—Grid No.2
 Pin 7—Grid No.3,
 Internal
 Shield

AMPLIFIER — Class A₁→ **Maximum Ratings, Design-Maximum Values:**

PLATE VOLTAGE. 330 max. volts
 GRID-No.2 (SCREEN-GRID) SUPPLY VOLTAGE . . . 330 max. volts
 GRID-No.2 VOLTAGE. See Grid-No.2 Input

Rating Chart at front of Receiving Tube Section

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

Positive-bias value. 0 max. volts

GRID-No.2 INPUT:

For grid-No.2 voltages up

to 165 volts 0.55 max. watt

For grid-No.2 voltages be-

tween 165 and 330 volts. See Grid-No.2 Input

Rating Chart at front of Receiving Tube Section

PLATE DISSIPATION. 2.3 max. watts

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode. 200 max. volts

Heater positive with respect to cathode. 200[▲] max. volts

⁰ With external shield, JEDEC No.316 connected to cathode.

[▲] The dc component must not exceed 100 volts.

→ Indicates a change.



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AVERAGE PLATE CHARACTERISTICS

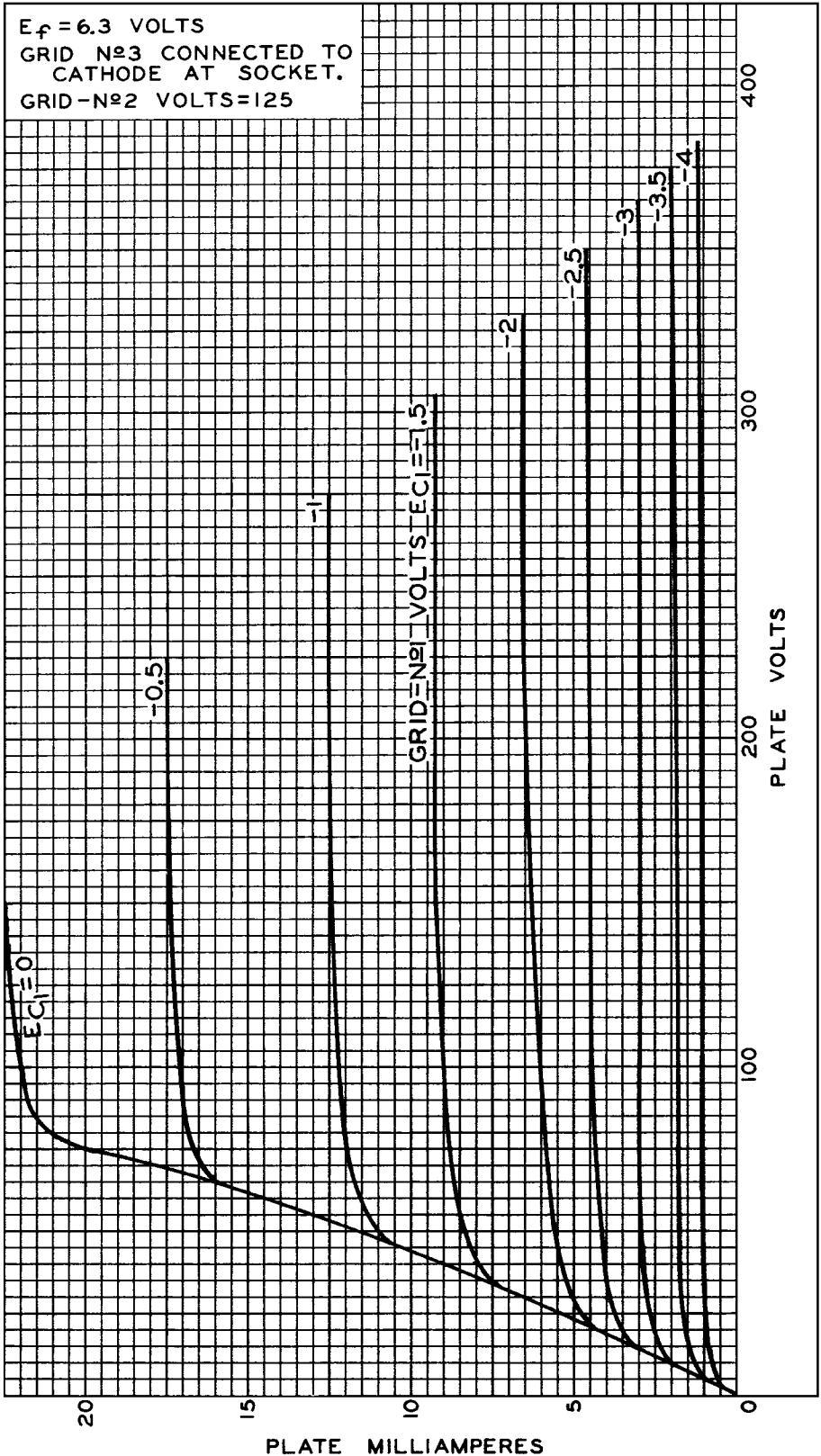


PLATE MILLIAMPERES

ELECTRON TUBE DIVISION

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-10243

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AVERAGE CHARACTERISTICS

$E_f = 6.3$ VOLTS
PLATE VOLTS = 125
GRID-Nº3 CONNECTED TO
CATHODE AT SOCKET.
GRID-Nº2 VOLTS = 125

