



6EW6

SHARP-CUTOFF PENTODE

7-PIN MINIATURE TYPE

6EW6

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage (AC or DC). $6.3 \pm 10\%$ volts

Current 0.4 amp

Direct Interelectrode Capacitances:

	<i>Without External Shield</i>	<i>With External Shield^o</i>	
Grid No.1 to plate	0.04 max.	0.03 max.	μf
Grid No.1 to cathode, grid No.3 & internal shield, grid No.2, and heater.	10	10	μf
Plate to cathode, grid No.3 & internal shield, grid No.2, and heater	2.4	3.4	μf

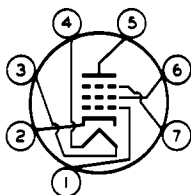
Characteristics, Class A₁ Amplifier:

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.).	0.2	megohm
Transconductance.	14000	μmhos
Plate Current	11	ma
Grid-No.2 Current	3.2	ma
Grid-No.1 Voltage (Approx.) for plate $\mu\text{a} = 20$	-3.5	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	<i>See General Section</i>
Bulb.	T5-1/2
Base.	Small-Button Miniature 7-Pin (JEDEC No.E7-1)
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

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AMPLIFIER — Class A₁

Maximum Ratings, Design-Maximum Values:

PLATE VOLTAGE.	330 max.	volts
GRID-No.3 (SUPPRESSOR-GRID) VOLTAGE.	0 max.	volts
GRID-No.2 (SCREEN-GRID) SUPPLY VOLTAGE	330 max.	volts
GRID-No.2 VOLTAGE.	<i>See Grid-No.2 Input</i>	

Rating Chart at front of Receiving Tube Section

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

Positive-bias value.	0 max.	volts
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GRID-No.2 INPUT:

For grid-No.2 voltages up

to 165 volts	0.65 max.	watt
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For grid-No.2 voltages be-

tween 165 and 330 volts.	<i>See Grid-No.2 Input</i>	
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Rating Chart at front of Receiving Tube Section

PLATE DISSIPATION.	3.1 max.	watts
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PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode	200 max.	volts
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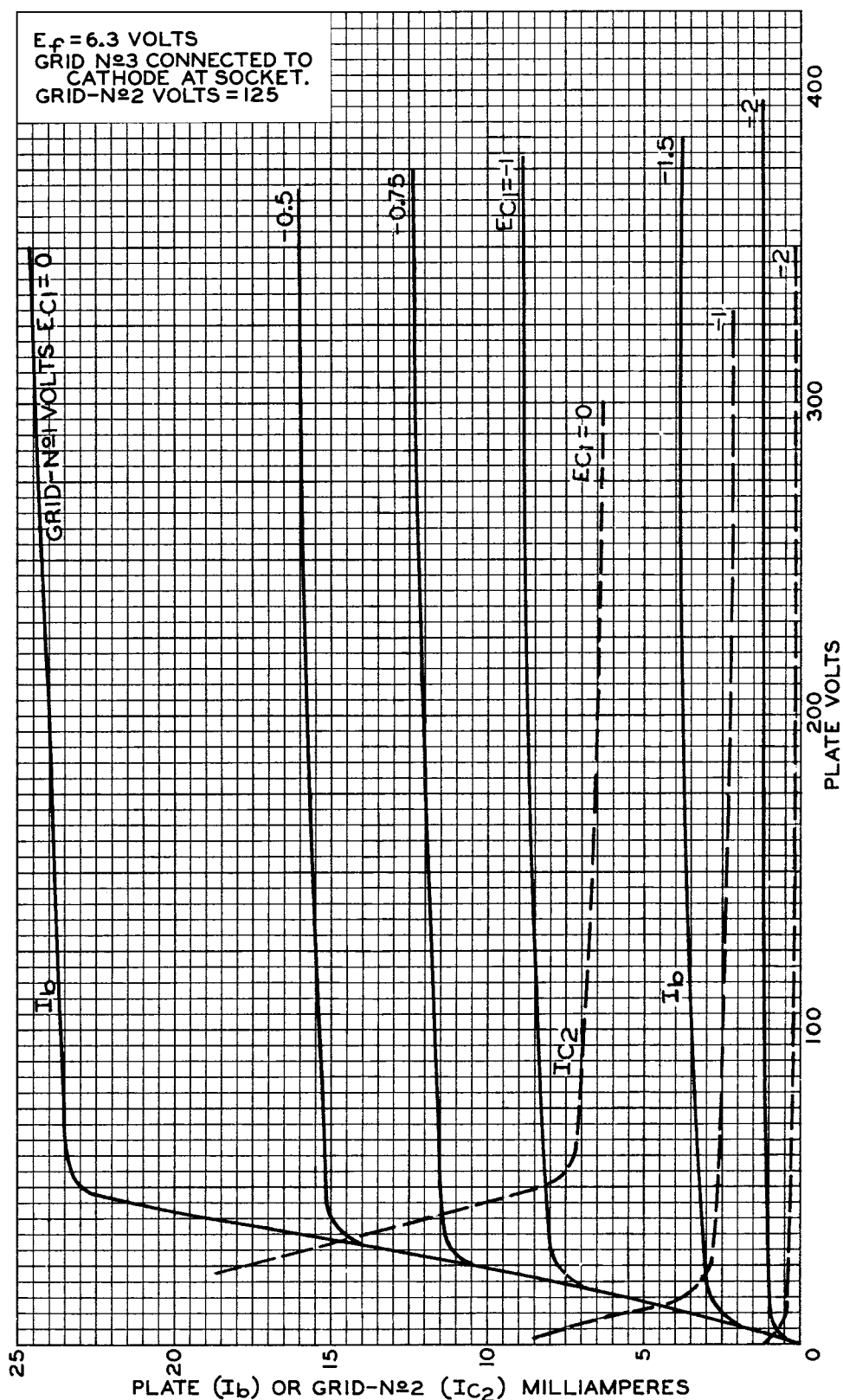
Heater positive with respect to cathode	200 [▲] max.	volts
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[○] With external shield JEDEC No.316 connected to cathode.[▲] The dc component must not exceed 100 volts.



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E_f = 6.3 VOLTS
GRID №3 CONNECTED TO
CATHODE AT SOCKET.
GRID-№2 VOLTS = 125



92CM-9965

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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AVERAGE CHARACTERISTICS

