

6GM6

Semiremote-Cutoff Pentode

7-PIN MINIATURE TYPE
For Gain-Controlled, 40-Mc, Picture-IF Stages of TV Receivers

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:
Voltage (AC or DC) 6.3 ± 10% volts
Current at 6.3 volts 0.4 amp
Direct Interelectrode Capacitances:

	<i>Without External Shield</i>	<i>With External Shield[▲]</i>	
Grid No.1 to plate	0.036 max.	0.026 max.	$\mu\mu\text{f}$
Grid No.1 to cathode, grid No.3 & internal shield, grid No.2, and heater	10	10	$\mu\mu\text{f}$
Plate to cathode, grid No.3 & internal shield, grid No.2, and heater	2.4	3.4	$\mu\mu\text{f}$

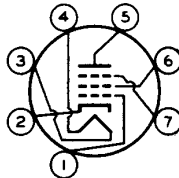
Characteristics, Class A₁ Amplifier:

Plate Supply Voltage 125 volts
Grid No.3 and Internal Shield. *Connected to cathode at socket*
Grid-No.2 Supply Voltage 125 volts
Cathode Resistor 56 ohms
Plate Resistance (Approx.) 0.2 megohm
Transconductance 13000 μmhos
Plate Current 14 ma
Grid-No.2 Current 3.4 ma
Grid-No.1 Voltage (Approx.) for
transconductance (μmhos) = 60 -15 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 See *General Section*
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). *Connect to cathode at socket*
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 0.65 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. 3.1 max. watts
PEAK HEATER-CATHODE VOLTAGE:

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

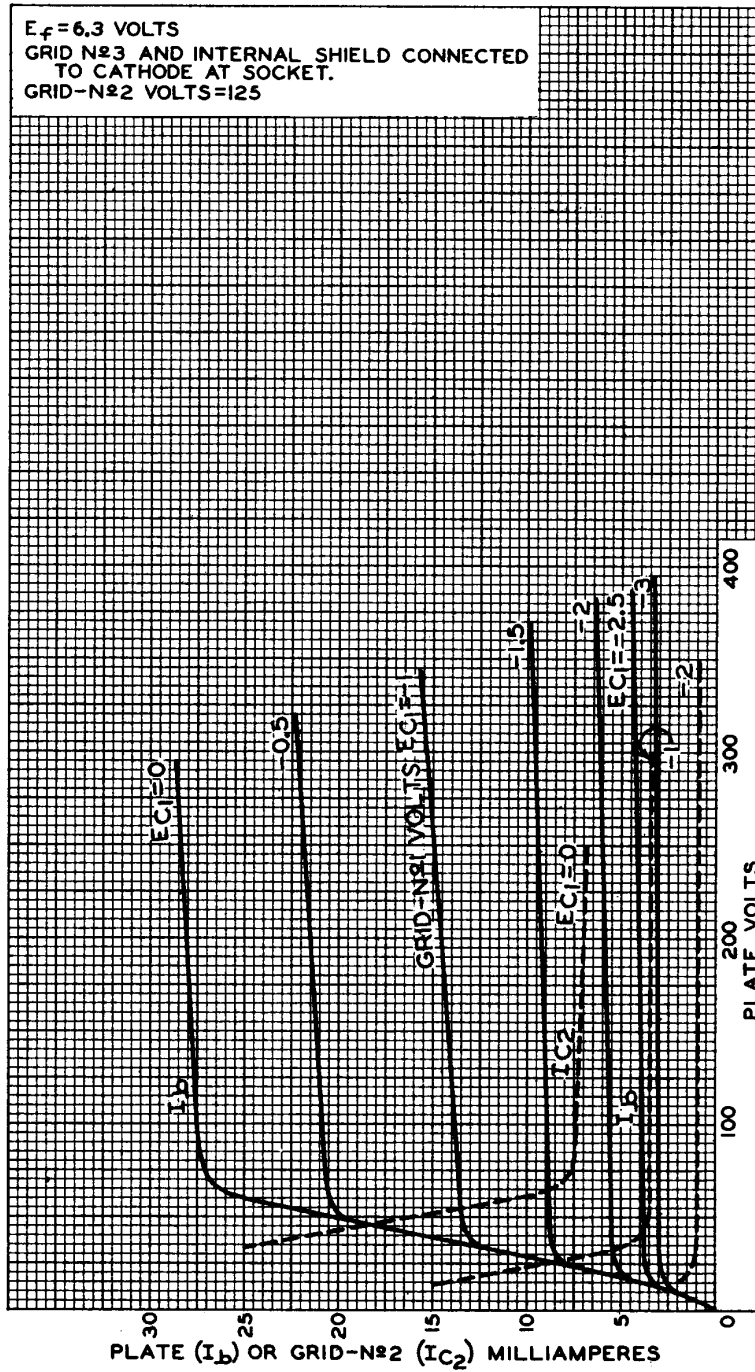
- ▲ With external shield JEDEC No.316 connected to cathode.
- The dc component must not exceed 100 volts.



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AVERAGE CHARACTERISTICS

$E_f = 6.3$ VOLTS
 GRID-N $\#$ 3 AND INTERNAL SHIELD CONNECTED
 TO CATHODE AT SOCKET.
 GRID-N $\#$ 2 VOLTS=125



92CM-10390R1

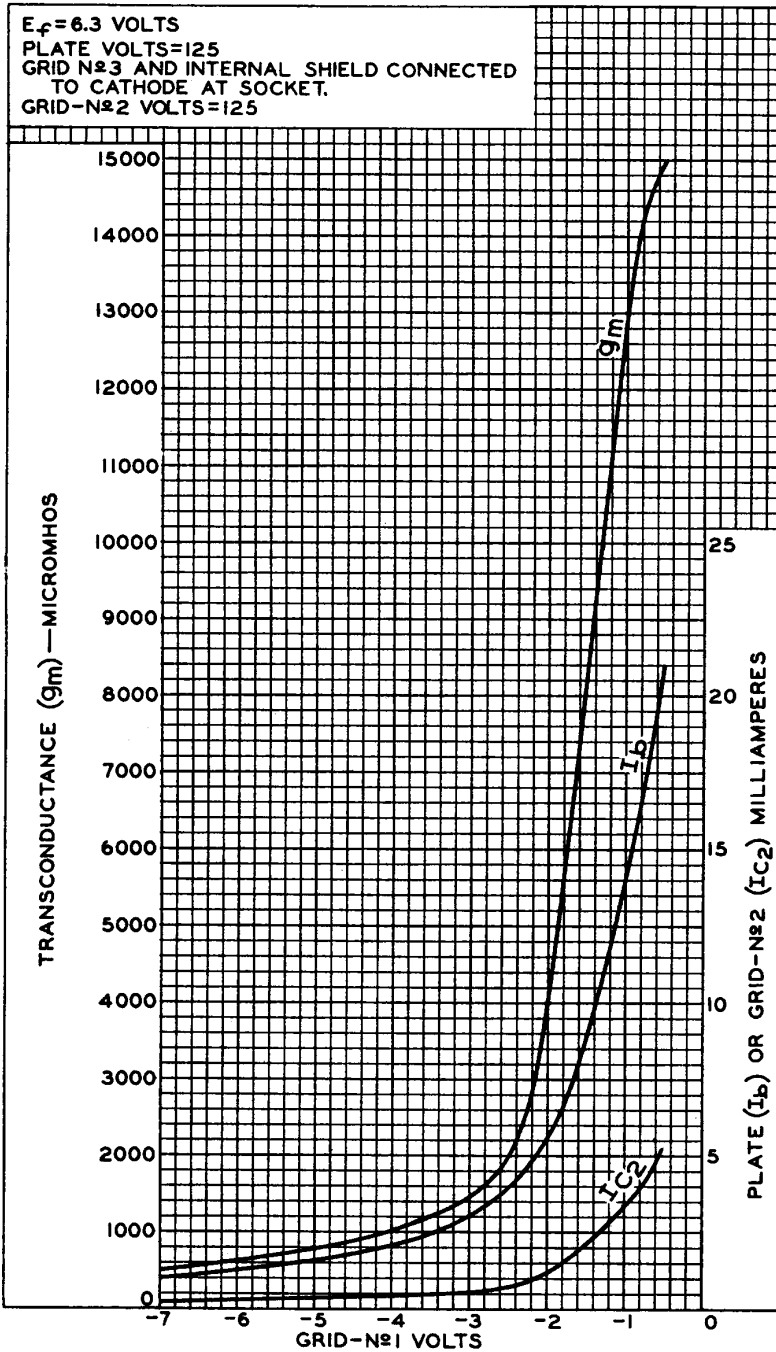


RADIO CORPORATION OF AMERICA
 Electron Tube Division
 Harrison, N. J.

DATA 2
 8-60

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AVERAGE CHARACTERISTICS



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