

## 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:

	Without External Shield	With External Shield <sup>▲</sup>	
Grid No.1 to plate . . . . .	0.036 max.	0.026 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

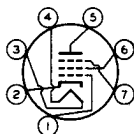
##### Characteristics, Class A<sub>1</sub> Amplifier:

Plate Supply Voltage . . . . .	125	volts
Grid No.3 and Internal Shield . . . . .	<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 . . . . .	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 <i>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



# 6GM6

## AMPLIFIER — Class A<sub>1</sub>

### 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

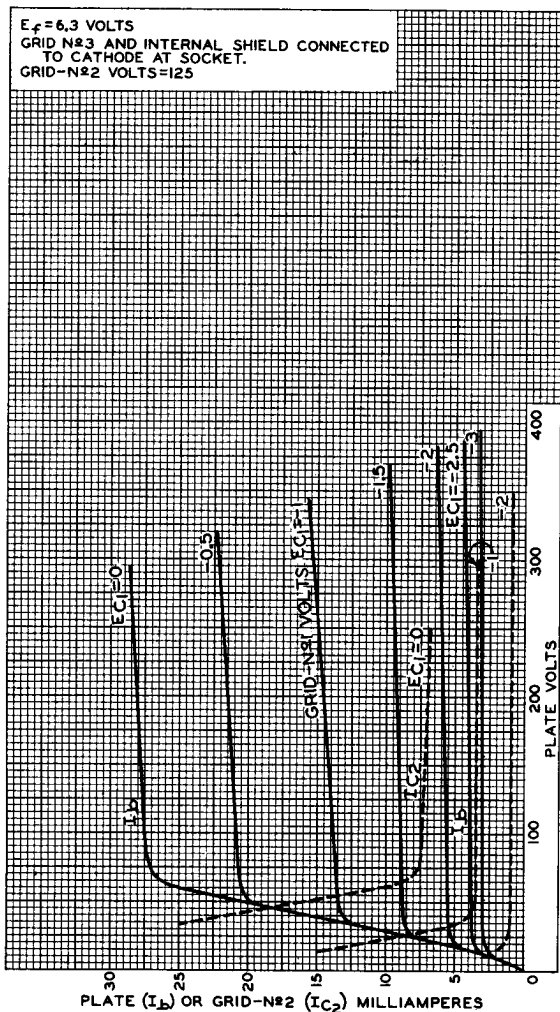
Heater positive with respect to cathode. 200<sup>▲</sup> max. volts

▲ With external shield JEDEC No.316 connected to cathode.

● The dc component must not exceed 100 volts.



## AVERAGE CHARACTERISTICS

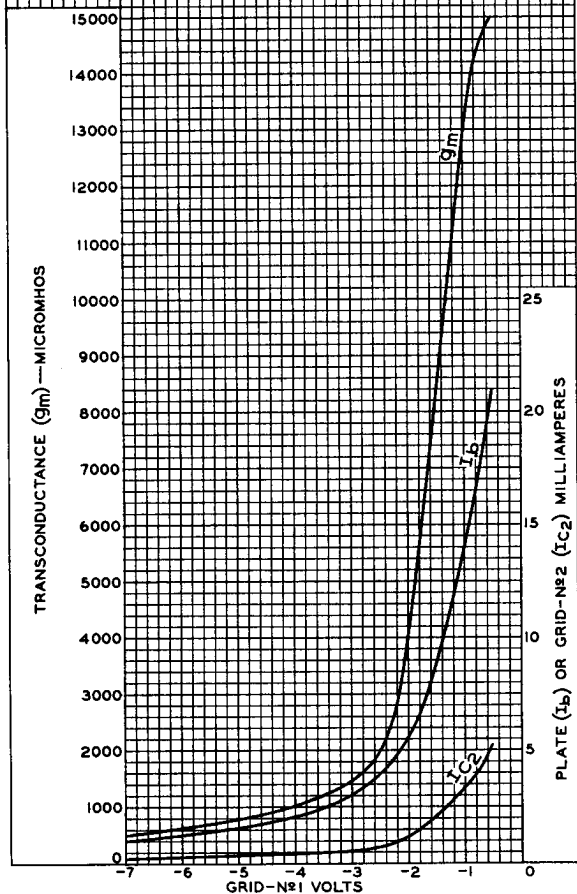


92CM-10390RI



## AVERAGE CHARACTERISTICS

$E_f = 6.3$  VOLTS  
 PLATE VOLTS = 125  
 GRID N<sup>o</sup>3 AND INTERNAL SHIELD CONNECTED  
 TO CATHODE AT SOCKET.  
 GRID-N<sup>o</sup>2 VOLTS = 125



92CM-10391R1

