

Semiremote-Cutoff Pentode

7-PIN MINIATURE TYPE

For Use in Gain-Controlled Picture-IF
Amplifier Stages of Color TV Receivers

GENERAL DATA

Electrical:

Heater Characteristics and Ratings:

Voltage (AC or DC)	6.3 ± 0.6	volts
Current at heater volts = 6.3	0.300	amp
Peak heater-cathode voltage:		
Heater negative with		
respect to cathode	200	volts
Heater positive with		
respect to cathode	200 ^a	volts

Direct Interelectrode Capacitances:

	<i>Without External Shield</i>	<i>With External Shield^b</i>	
Grid No.1 to plate	0.025 max.	0.015 max.	pf
Grid No.1 to cathode, grid No.3 & internal shield, grid No.2, and heater	7	7	pf
Plate to cathode, grid No.3 & internal shield, grid No.2, and heater	2	3	pf

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.)	0.26	megohm
Transconductance	8000	μmhos
Plate Current	14	ma
Grid-No.2 Current	3.6	ma
Grid-No.1 Voltage (Approx.)		
for transconductance (μmhos) = 50		
and cathode resistor (ohms) = 0	-19	volts
Transconductance Range for grid-		
No.1 volts = -4.5 and cathode		
resistor of 56 ohms	400 - 900	μmhos

Mechanical:

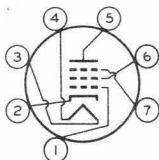
Mounting Position	Any
Type of Cathode	Coated Unipotential
Maximum Overall Length	2-1/8"
Maximum Seated Length	1-7/8"
Length, Base Seat to Bulb Top (Excluding tip)	1-1/2" ± 3/32"
Diameter	0.650" to 0.750"



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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

AMPLIFIER — Class A₁

Maximum Ratings, *Design-Maximum Values:*

PLATE VOLTAGE 300 max. volts
 GRID-No.3 (SUPPRESSOR-GRID) VOLTAGE 0 max. volts
 GRID-No.2 (SCREEN-GRID) SUPPLY VOLTAGE. 300 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 150 volts 0.55 max. watt
 For grid-No.2 voltages
 between 150 and 300 volts .See *Grid-No.2 Input Rating Chart*
 at front of Receiving Tube Section
 PLATE DISSIPATION 2.3 max. watts

Maximum Circuit Values:

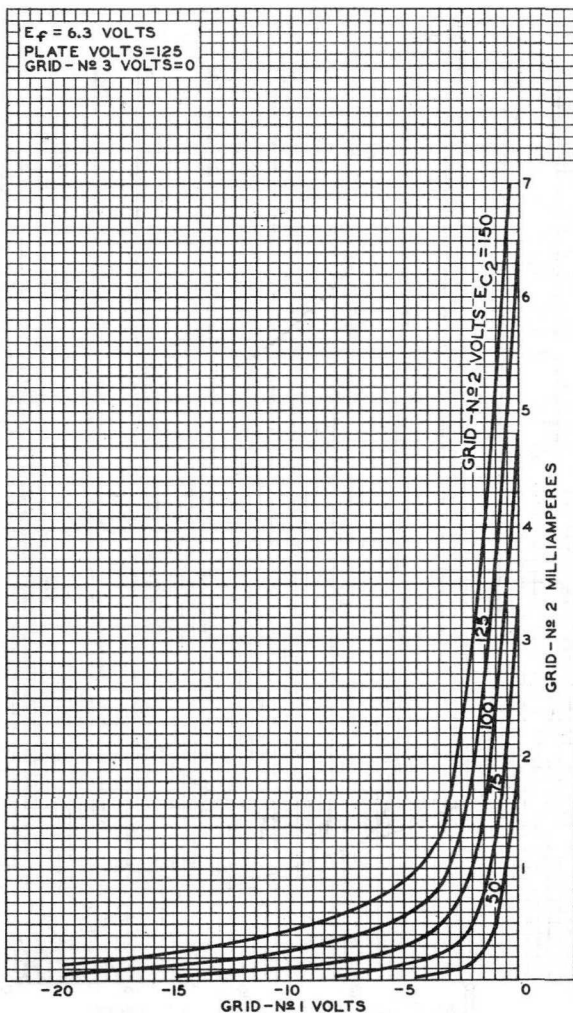
Grid-No.1—Circuit Resistance:
 For fixed-bias operation. 0.25 max. megohm
 For cathode-bias operation. 1 max. megohm

^a The dc component must not exceed 100 volts.

^b With external shield JEDEC No.316 connected to cathode.



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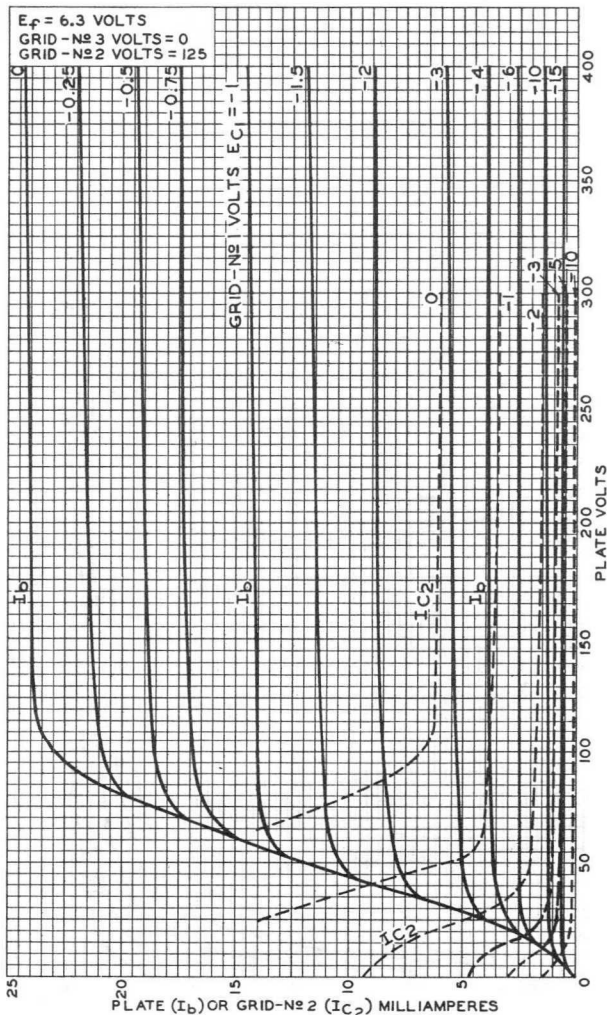


RADIO CORPORATION OF AMERICA
Electron Tube Division
Harrison, N. J.

DATA 2
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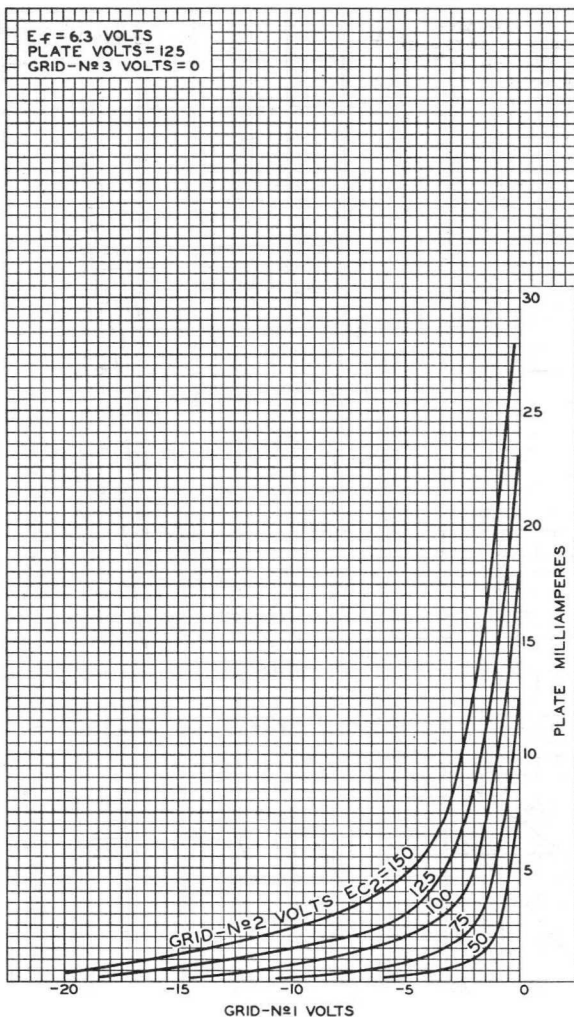
AVERAGE CHARACTERISTICS



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AVERAGE CHARACTERISTICS

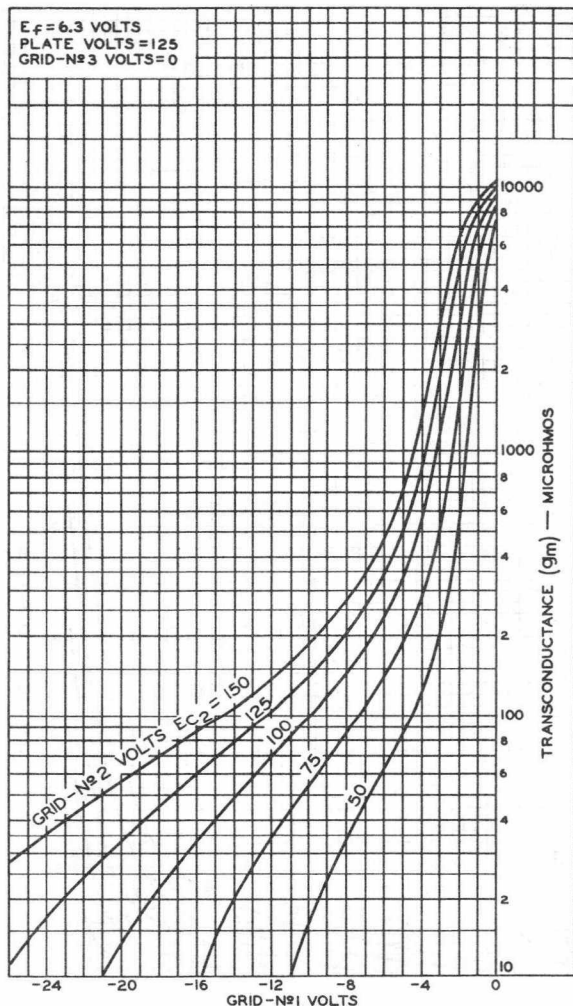


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