

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 voltsHeater 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	μ hos
Plate Current	14	ma
Grid-No.2 Current	3.6	ma
Grid-No.1 Voltage (Approx.) for transconductance (μ hos) = 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	μ hos

Mechanical:

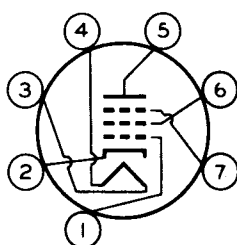
Mounting Position	Any
Type of Cathode	Coated Unipotential
Maximum Overall Length.	2-1/8"
Maximum Seated Length	1-7/8"
Length, Base Seat to Bulb Top (Excluding tip)	1-1/2" $\pm$ 3/32"
Diameter.	0.650" to 0.750"



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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:

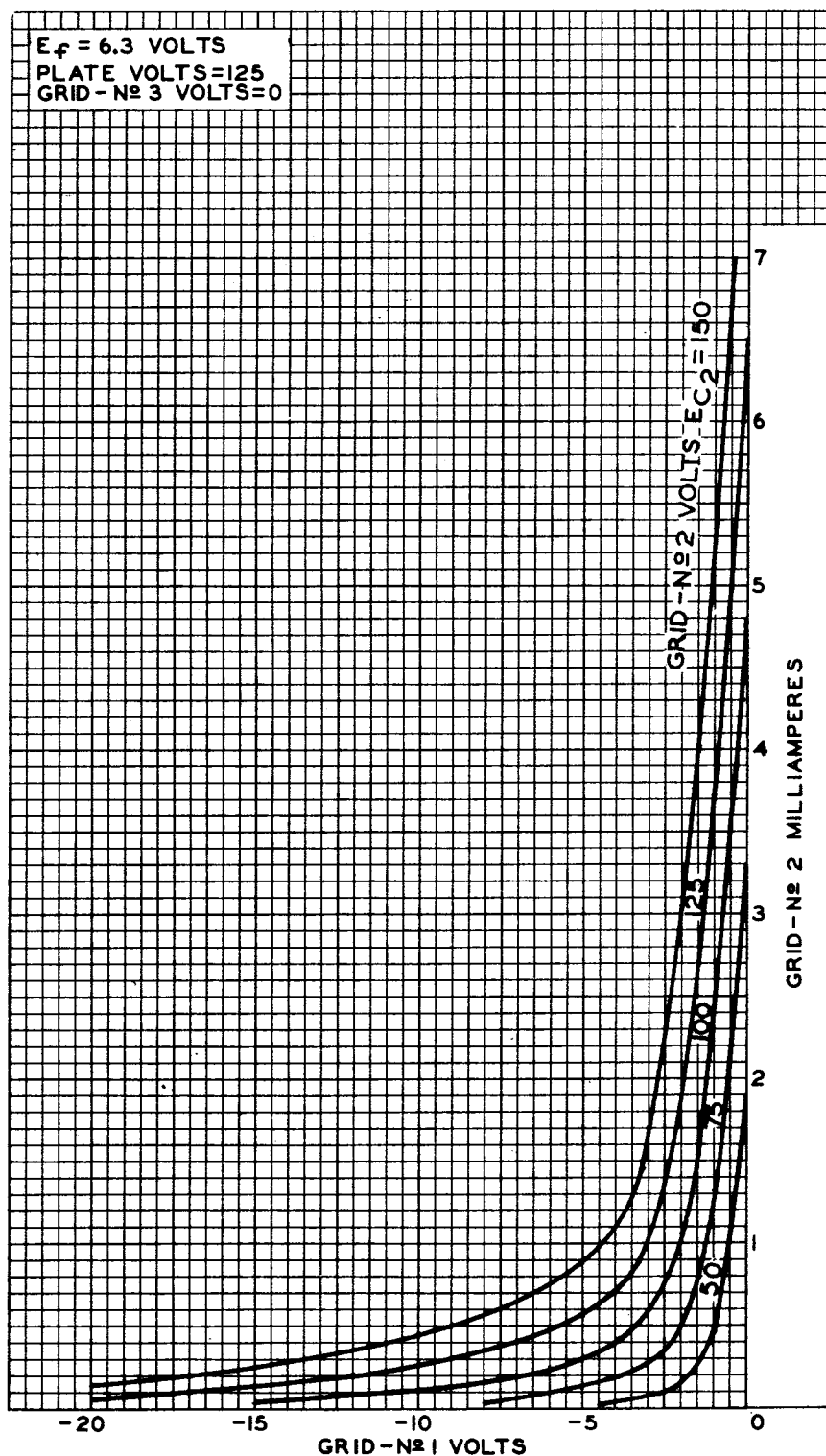
Grid-No.1-Circuit Resistance:
 For fixed-bias operation. 0.25 max. megohm
 For cathode-bias operation. 1 max. megohm

^a The dc component must not exceed 100 volts.

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



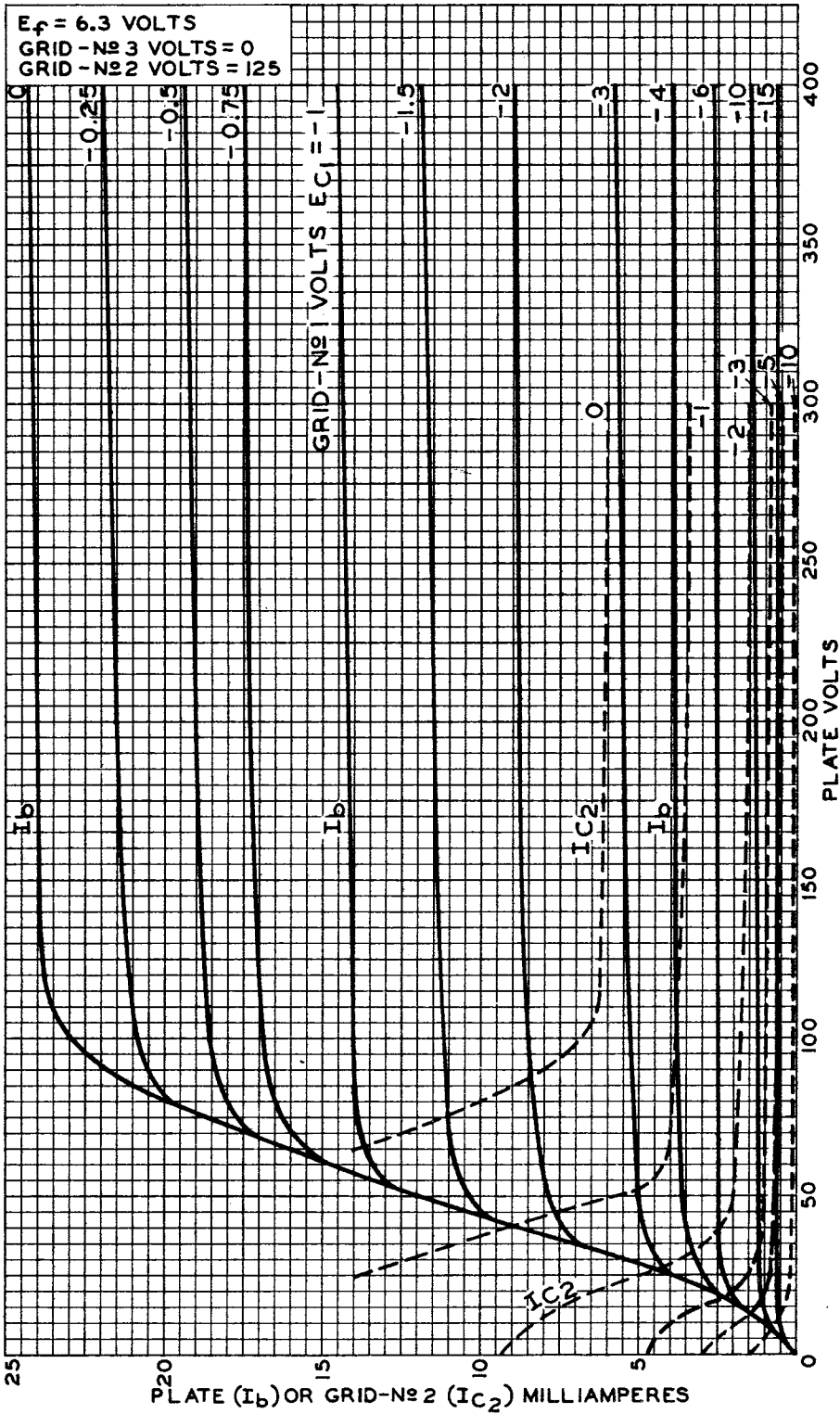
AVERAGE CHARACTERISTICS



92CM-9485R1



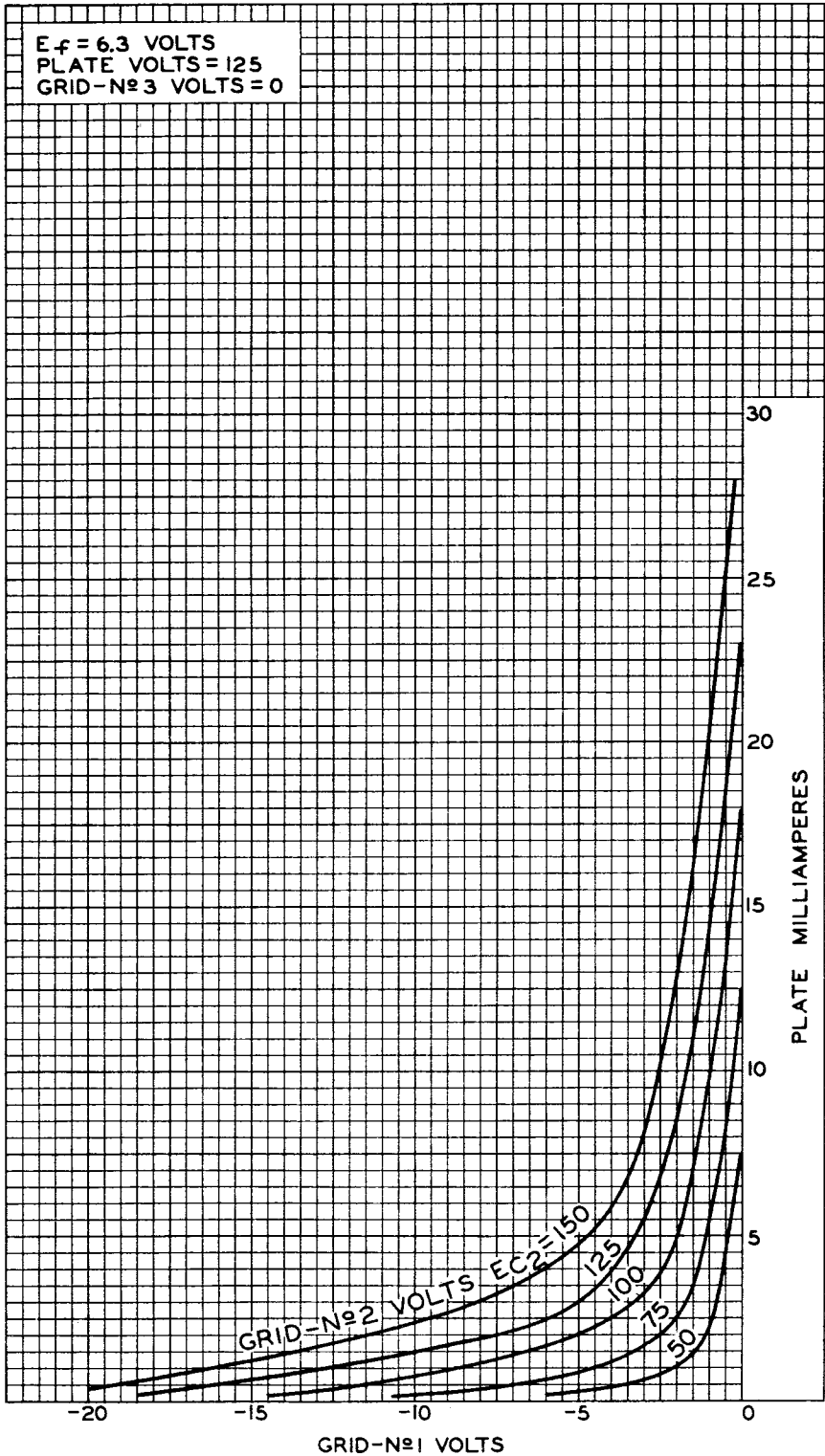
AVERAGE CHARACTERISTICS



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AVERAGE CHARACTERISTICS

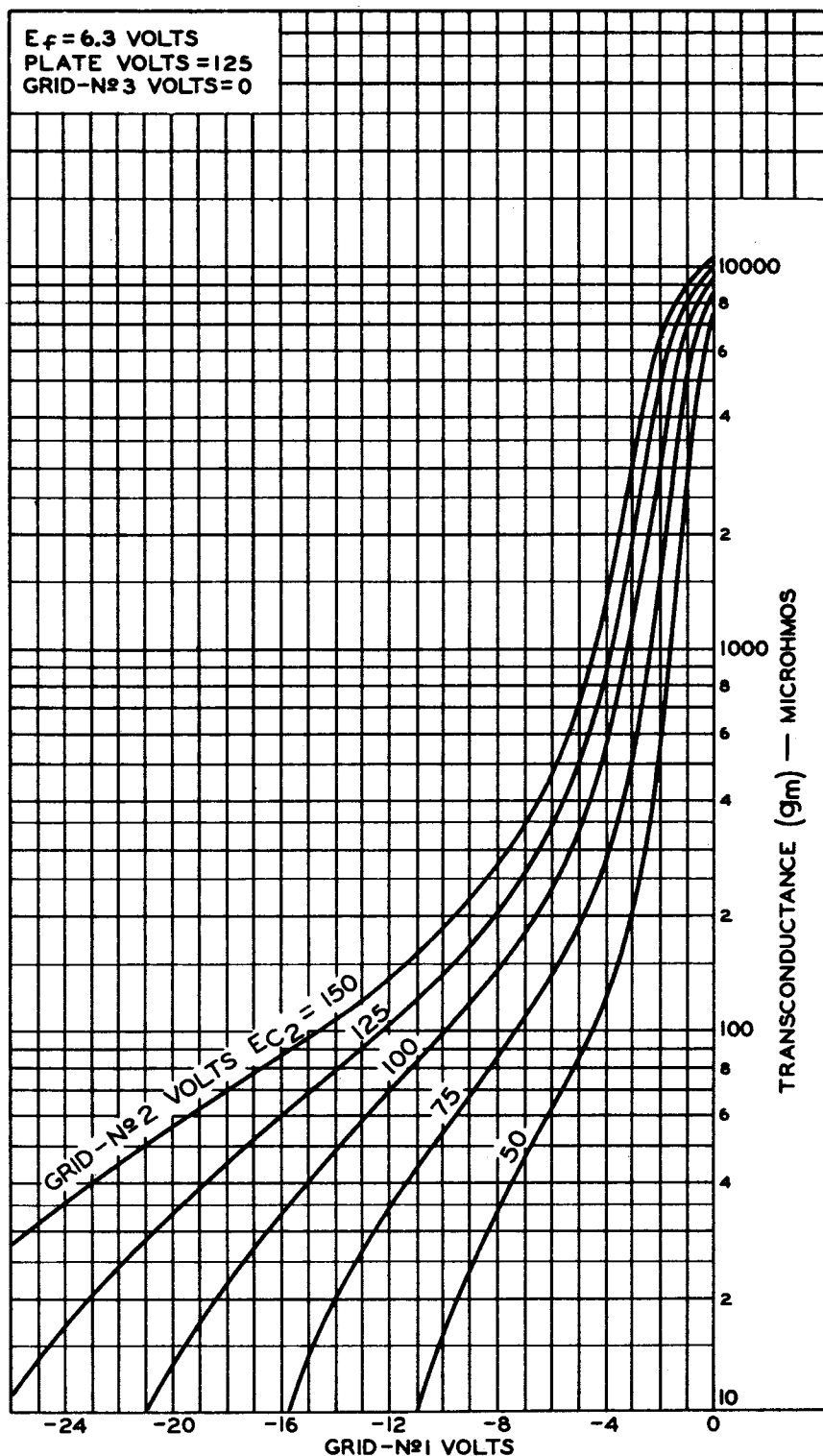


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AVERAGE CHARACTERISTICS



92CM-8509R1

