

Remote-Cutoff Pentode

7-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage (AC or DC)	6.3 ± 10%	volts	←
Current at 6.3 volts	0.3	amp	

Direct Interelectrode Capacitances:

	Without External Shield	With External Shield [▲]	
Grid No.1 to plate	0.0035 max.	0.0035 max.	μf
Grid No.1 to cathode, grid No.3 & internal shield, grid No.2, and heater	5.5	5.5	μf
Plate to cathode, grid No.3 & internal shield, grid No.2, and heater	5	5.5	μf

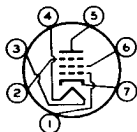
Characteristics, Class A₁ Amplifier:

Plate Supply Voltage	100	250	volts
Grid No.3	Connected to cathode at socket		
Grid-No.2 Supply Voltage	100	100	volts
Cathode Resistor	68	68	ohms
Plate Resistance (Approx.)	0.25	1	megohm
Transconductance	4300	4400	μmhos
Plate Current	10.8	11	ma
Grid-No.2 Current	4.4	4.2	ma
Grid-No.1 Voltage (Approx.) for transconductance (μmhos) = 40	-20	-20	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	7BK ←

Pin 1 - Grid No.1
Pin 2 - Grid No.3,
Internal
Shield
Pin 3 - Heater



Pin 4 - Heater
Pin 5 - Plate
Pin 6 - Grid No.2
Pin 7 - Cathode

← Indicates a change.



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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:	
Negative-bias value.	55 max. volts
Positive-bias value.	0 max. volts
GRID-No.2 INPUT:	
For grid-No.2 voltages up to 165 volts.	0.7 max. watt
For grid-No.2 voltages between 165 and 330 volts.	See Grid-No.2 Input Rating Chart at front of Receiving Tube Section
PLATE DISSIPATION.	3.4 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.

→ Indicates a change.

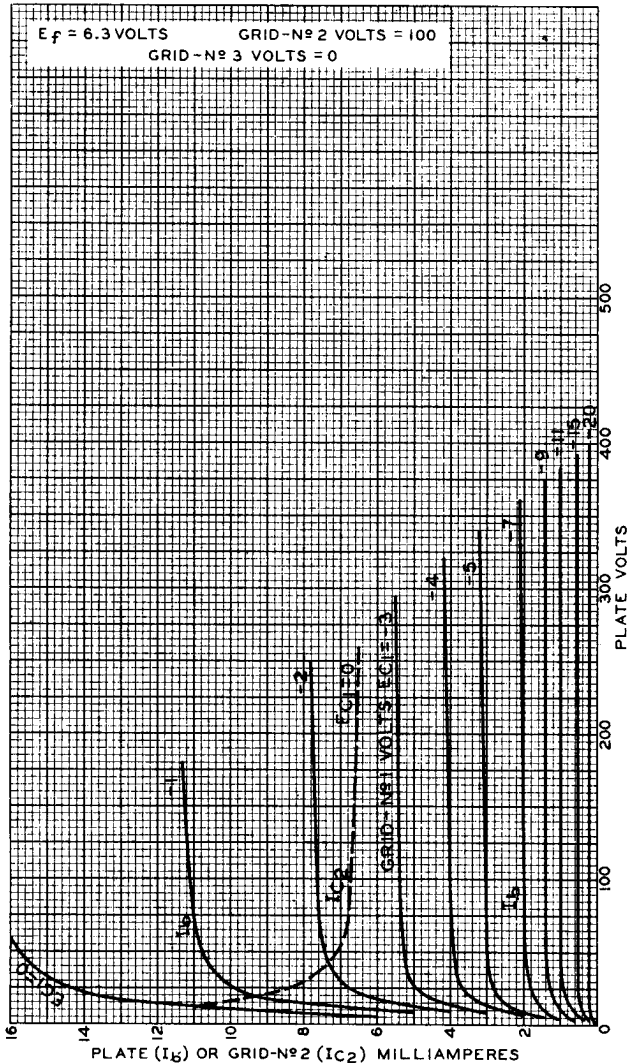




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AVERAGE PLATE CHARACTERISTICS



OCT. 22, 1945

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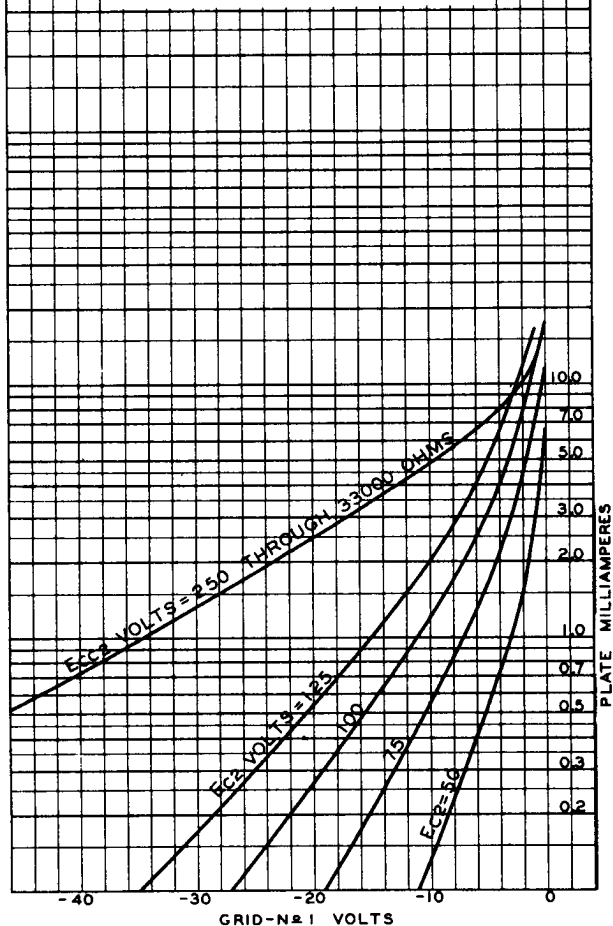
AVERAGE CHARACTERISTICS PENTODE CONNECTION

$E_f = 6.3$ VOLTS PLATE VOLTS = 250

GRID-N#3 VOLTS = 0

$E_{C2} =$ GRID-N#2 VOLTS

$E_{CC2} =$ GRID-N#2-SUPPLY VOLTS



NOV. 12, 1945

RCA VICTOR DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

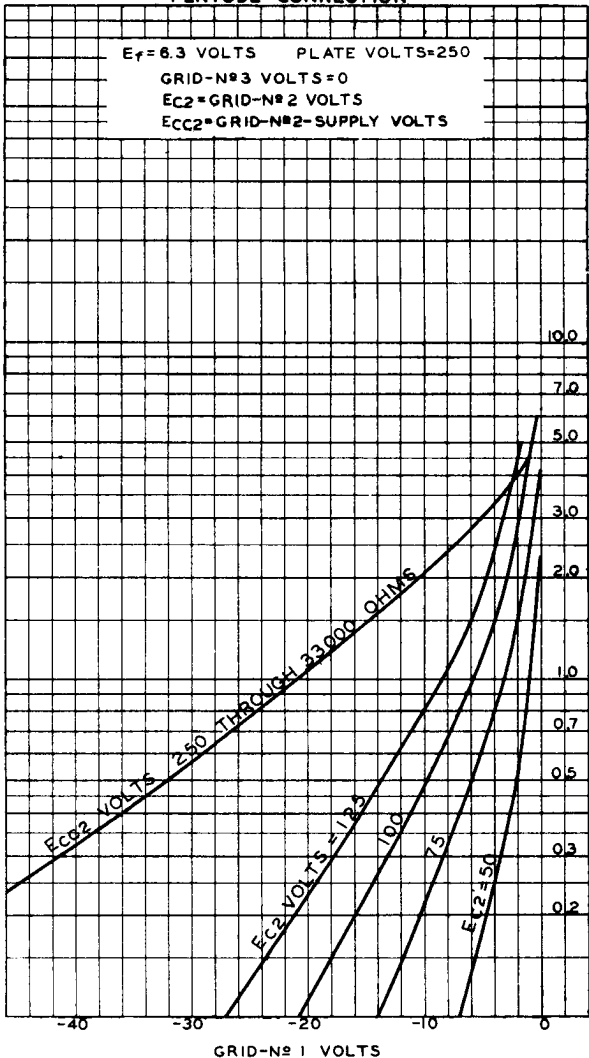
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AVERAGE CHARACTERISTICS PENTODE CONNECTION



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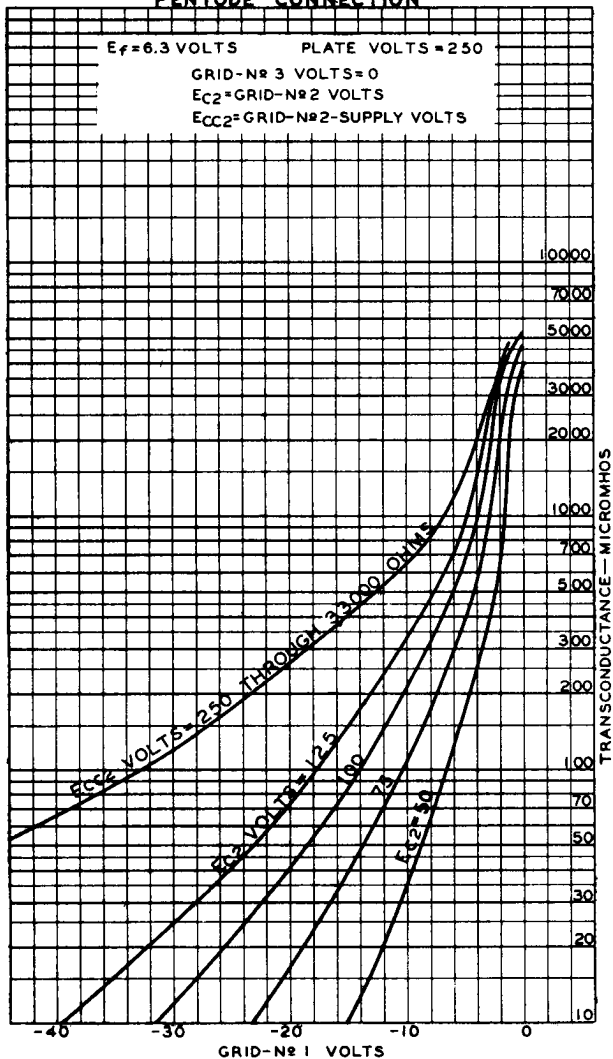
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AVERAGE CHARACTERISTICS PENTODE CONNECTION



DEC. 10, 1951

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