



6B7

6B7

TWIN DIODE—REMOTE-CUTOFF PENTODE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage	6.3	ac or dc volts
Current	0.3	amp

Direct Interelectrode Capacitances (Pentode Unit):

Grid No.1 to Plate ^o	0.007 max.	μf
Input	3.5	μf
Output	9.5	μf

^o With external shield connected to cathode.

Mechanical:

Mounting Position	Any
Maximum Overall Length	4-17/32"
Seated Length	3-25/32" \pm 1/8"
Maximum Diameter	1-9/16"
Bulb	ST-12
Cap.	Small
Base	Small-Shell Small 7-Pin

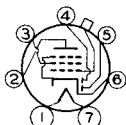
Basing Designation for BOTTOM VIEW 7D

Pin 1 - Heater

Pin 2 - Pentode Plate

Pin 3 - Pentode Grid No.2

Pin 4 - Diode No.2 Plate



Pin 5 - Diode No.1 Plate

Pin 6 - Cathode, Pentode Grid No.3

Pin 7 - Heater Cap - Pentode Grid No.1

PENTODE UNIT AMPLIFIER - Class A₁

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE	300 max.	volts
GRID-No.2 (SCREEN) VOLTAGE	125 max.	volts
GRID-No.2 SUPPLY VOLTAGE	300 max.	volts
GRID-No.1 (CONTROL-GRID) VOLTAGE:		
Positive bias value	0 max.	volts
PLATE DISSIPATION	2.25 max.	watts
GRID-No.2 DISSIPATION	0.3 max.	watt
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode	90 max.	volts
Heater positive with respect to cathode	90 max.	volts

Characteristics:

Plate Voltage	100	180	250	250	volts
Grid-No.2 Voltage	100	75	100	125	volts
Grid-No.1 Voltage	-3	-3	-3	-3	volts
Plate Resistance (Approx.)	0.3	1.0	0.8	0.6	megohm
Transconductance	950	840	1000	1125	μmhos

(continued on next page)

← Indicates a change.

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Grid-No.1 Bias (Approx.) for					
Cathode-Current Cutoff . . .	-17	-13	-17	-21	volts
Plate Current	5.8	3.4	6	9	ma
Grid-No.2 Current	1.7	0.9	1.5	2.3	ma

DIODE UNITS

Maximum Ratings, Design-Center Values:

→ PLATE CURRENT (For Each Diode) 1.0 max. ma

Diode Considerations:

See front of this Section.

For additional data, refer to RESISTANCE-COUPLED AMPLIFIER CHARTS at the front of this Section.

The curve shown under type 2B7 also applies to the pentode unit of the 6B7.

→ Indicates a change.

DEC. 30, 1947

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

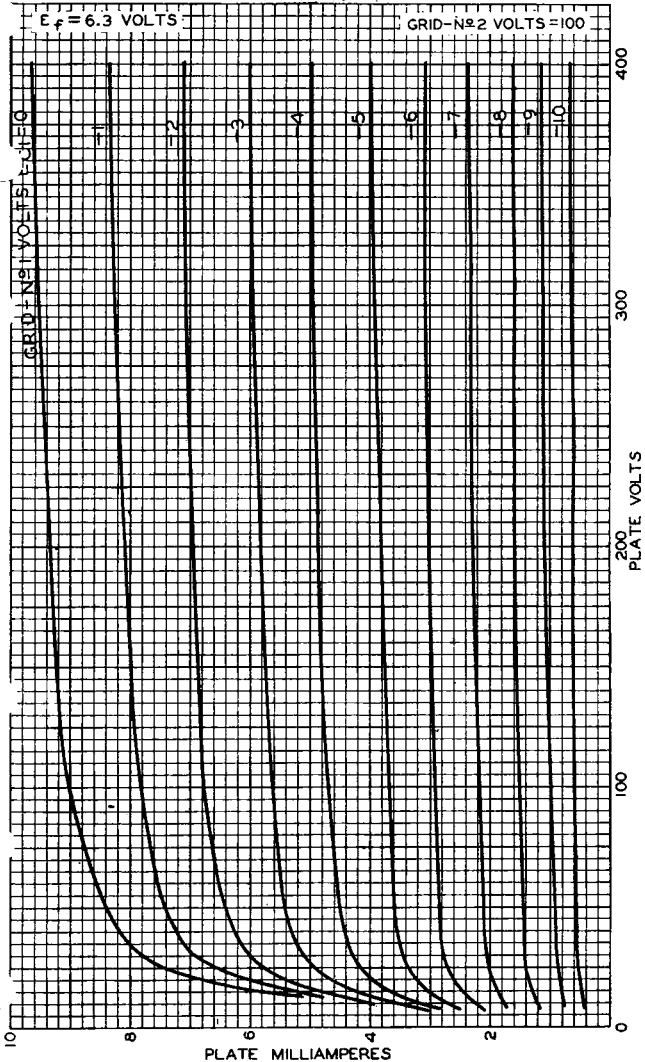
DATA



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AVERAGE PLATE CHARACTERISTICS PENTODE UNIT



FEB. 17, 1938

TUBE DEPARTMENT
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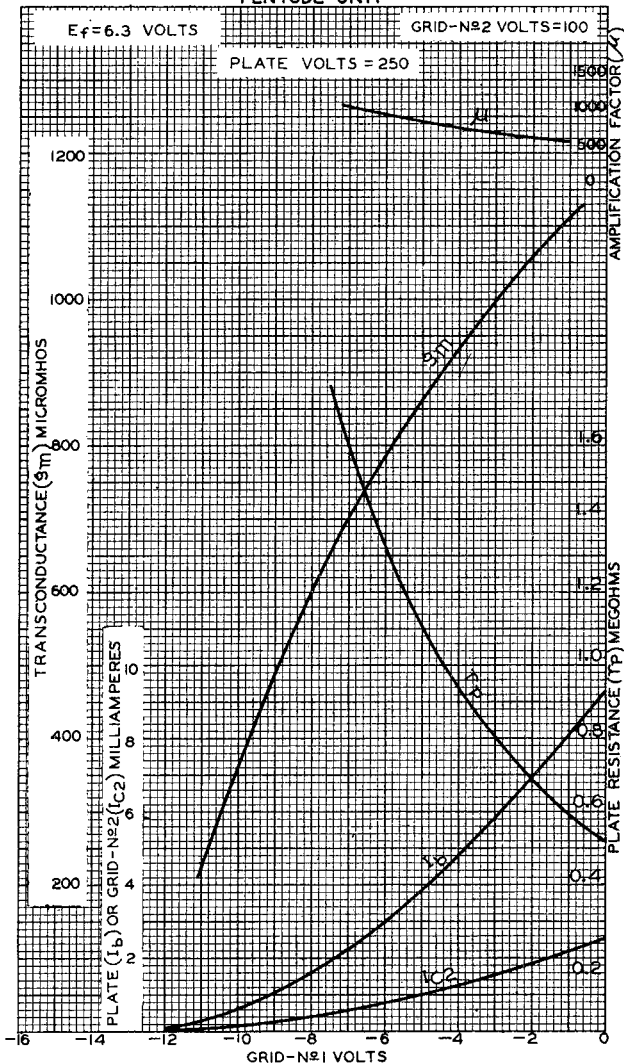
92CM-4880

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AVERAGE CHARACTERISTICS PENTODE UNIT



FEB. 25, 1937

TUBE DEPARTMENT

92CM-4745

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