

**RCA TUBE
HANDBOOK**

**HB-3
VOL. 7-8**



**COMMERCIAL ENGINEERING
ELECTRON TUBE DIVISION
RADIO CORPORATION OF AMERICA
HARRISON - NEW JERSEY**



6B8

VT-93
6B8



DUPLEX-DIODE PENTODE

Heater [■] Coated Unipotential Cathode
 Voltage 6.3 a-c or d-c volts
 Current 0.3 amp.

Direct Interelectrode Capacitances:^o

Pentode Unit:

Grid to Plate 0.005 max. μ f
 Input 6 μ f
 Output 9 μ f

Maximum Overall Length 3-1/8"

Maximum Seated Height 2-9/16"

Maximum Diameter 1-5/16"

Bulb Metal Shell, MT-8

Cap Miniature

Base Small Wafer Octal 8-Pin

Pin 1 - Shell Pin 6 - Screen

Pin 2 - Heater Pin 7 - Heater

Pin 3 - Plate Pin 8 - Cathode

Pin 4 - Diode Plate #2 Cap - Grid

Pin 5 - Diode Plate #1

Mounting Position Any



BOTTOM VIEW (8E)

PENTODE UNIT

Plate Voltage 300 max. volts

Screen Voltage 125 max. volts

Screen Supply Voltage 300 max. volts

Grid Voltage 0 min. volts

Plate Dissipation 2.25 max. watts

Screen Dissipation 0.3 max. watt

Typical Operation and Characteristics - Class A₁ Amplifier:

Plate 250 volts

Screen 125 volts

Grid -3 volts

Plate Res. 0.6 approx. megohm

Transcond. 1325 μ mhos

Grid Bias for

cathode-current cut-off -21 approx. volts

Plate Cur. 10 ma.

Screen Cur. 2.3 ma.

DIODE UNITS - Two

Consideration of these units is given under Type 6B8-G. Circuits will be similar to those shown for Type 2B7.

- In circuits where the cathode is not directly connected to the heater, the potential difference between heater and cathode should be kept as low as possible.
- o With shell connected to cathode.

For Diode Curves, see Type 6B7. For additional data, see RESISTANCE-COUPLED AMPLIFIER CHART.

← Indicates a change.

Sept. 2, 1941

RCA RADIOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.

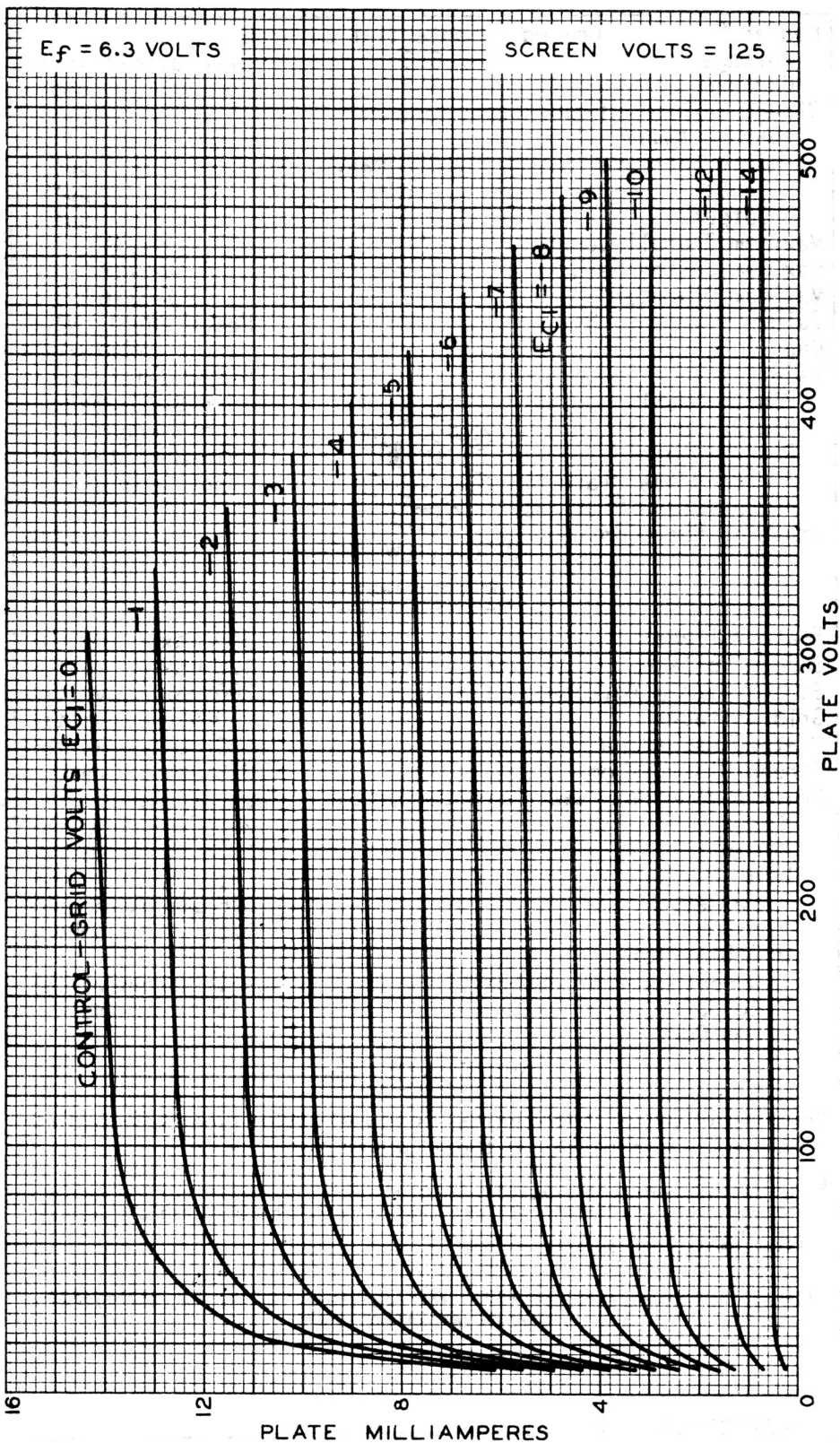
DATA

VT-93
6B8



6B8

AVERAGE PLATE CHARACTERISTICS

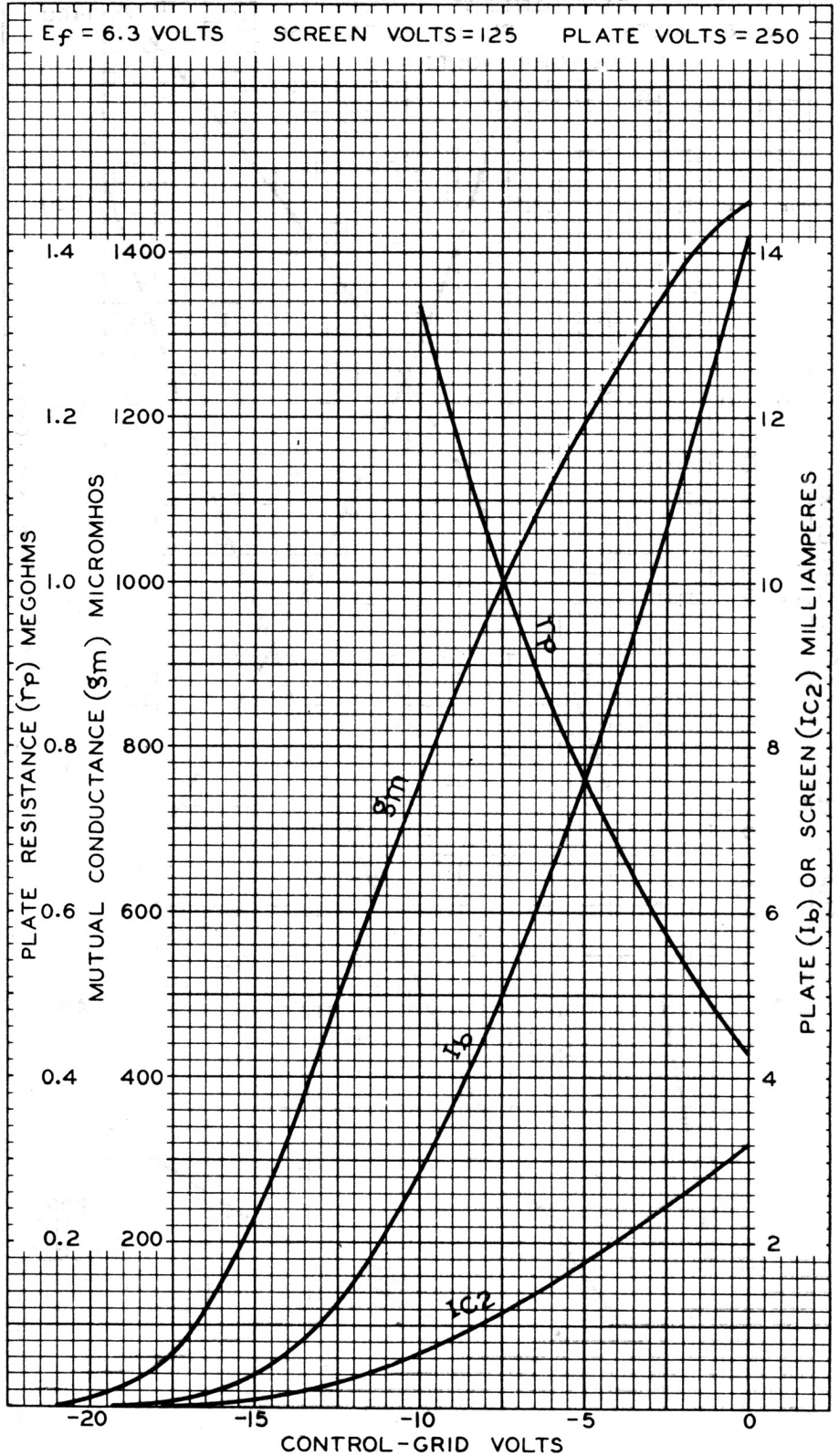


AUG. 14, 1936

RCA RADIOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.

92C-4657

AVERAGE CHARACTERISTICS

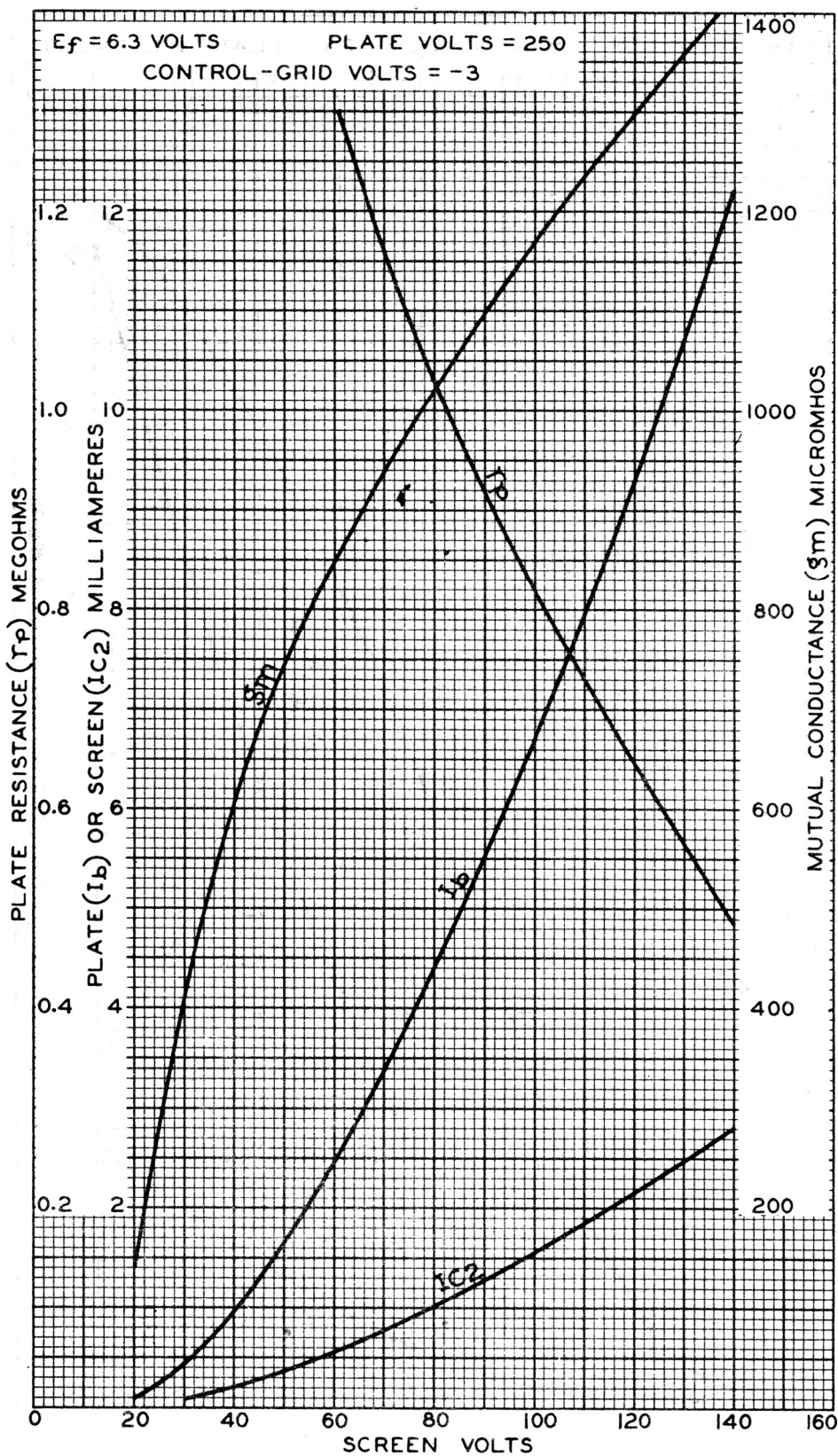


VT-93
6B8



RCA-6B8

AVERAGE CHARACTERISTICS



AUG. 18, 1936

RCA RADIOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.

92C-4661

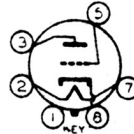


VT-65
6C5
6C5-GT/G

6C5, 6C5-GT/G

DETECTOR AMPLIFIER TRIODE

Heater [■]	Coated Unipotential Cathode	
Voltage	6.3	a-c or d-c volts
Current	0.3	amp.
	6C5	6C5-GT/G
Direct Interelectrode Cap.	▲	▲▲
Grid to Plate	2.0	2.2 μf
Grid to Cathode	3.0	4.4 μf
Plate to Cathode	11	12 μf
Maximum Overall Length	2-5/8"	3-5/16"
Maximum Seated Height	2-1/16"	2-3/4"
Maximum Diameter	1-5/16"	1-5/16"
Bulb	Metal Shell, MT-8	T-9
Base	{ Small Wafer { Octal 6-Pin	{ Small Wafer { Octal 6-Pin, Sleeve
Basing Designation	6Q	GT-6Q
Pin 1 { 6C5, Shell { 6C5-GT/G, Sleeve		Pin 5 - Grid
Pin 2 - Heater		Pin 7 - Heater
Pin 3 - Plate		Pin 8 - Cathode
Mounting Position		Any



BOTTOM VIEW

Maximum And Minimum Ratings Are Design-Center Values

AMPLIFIER

Plate Voltage	300 max.	volts
Grid Voltage	0 min.	volts
Plate Dissipation	2.5 max.	watts
<i>Characteristics - Class A₁ Amplifier:</i>		
Plate Voltage	250	volts
Grid Voltage *	-8	volts
Amplification Factor	20	
Plate Resistance	10000	ohms
Transconductance	2000	μmhos
Plate Current	8	ma.

Typical Operation with Resistance Coupling:
See RESISTANCE-COUPLED AMPLIFIER CHART.

DETECTOR

Typical Operation:	Biased	Grid Leak	
Plate Voltage	250	45 to 100	volts
Grid Voltage	-17 approx.	Return to cathode	volts
Plate Current	Adjusted to 0.2 ma. with no input signal	-	
Grid Leak	-	0.1 to 1.0	megohm
Grid Condenser	-	0.00005 to 0.0005	μf

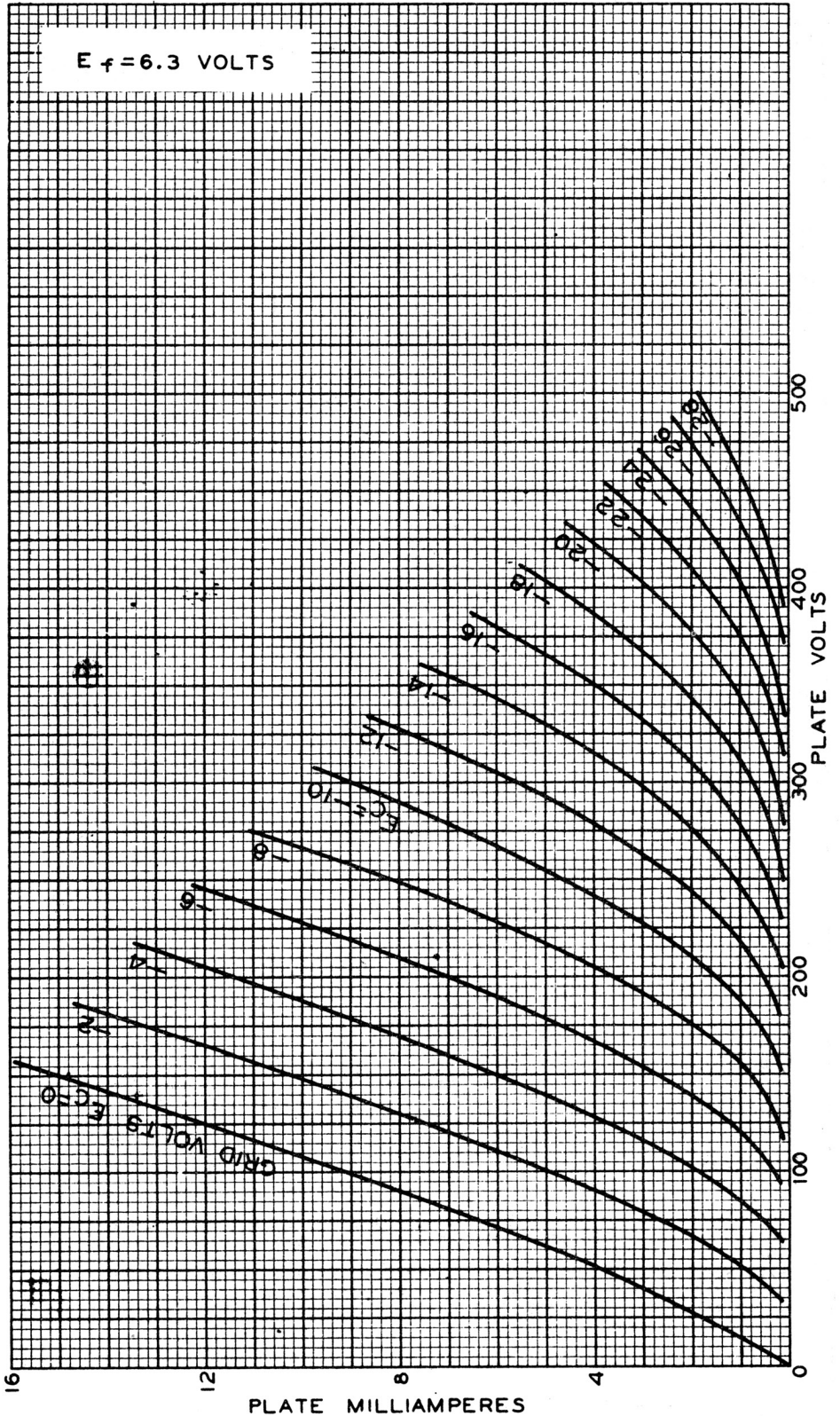
- In circuits where the cathode is not directly connected to the heater, the potential difference between heater and cathode should be kept as low as possible.
- ▲ with shell of 6C5 connected to cathode. Values are approximate.
- ▲▲ with external shield connected to cathode. Values are approximate.
- * Under maximum rated conditions, the resistance in the grid circuit should not exceed 1.0 megohm.

VT-65
6C5



6C5

AVERAGE PLATE CHARACTERISTICS

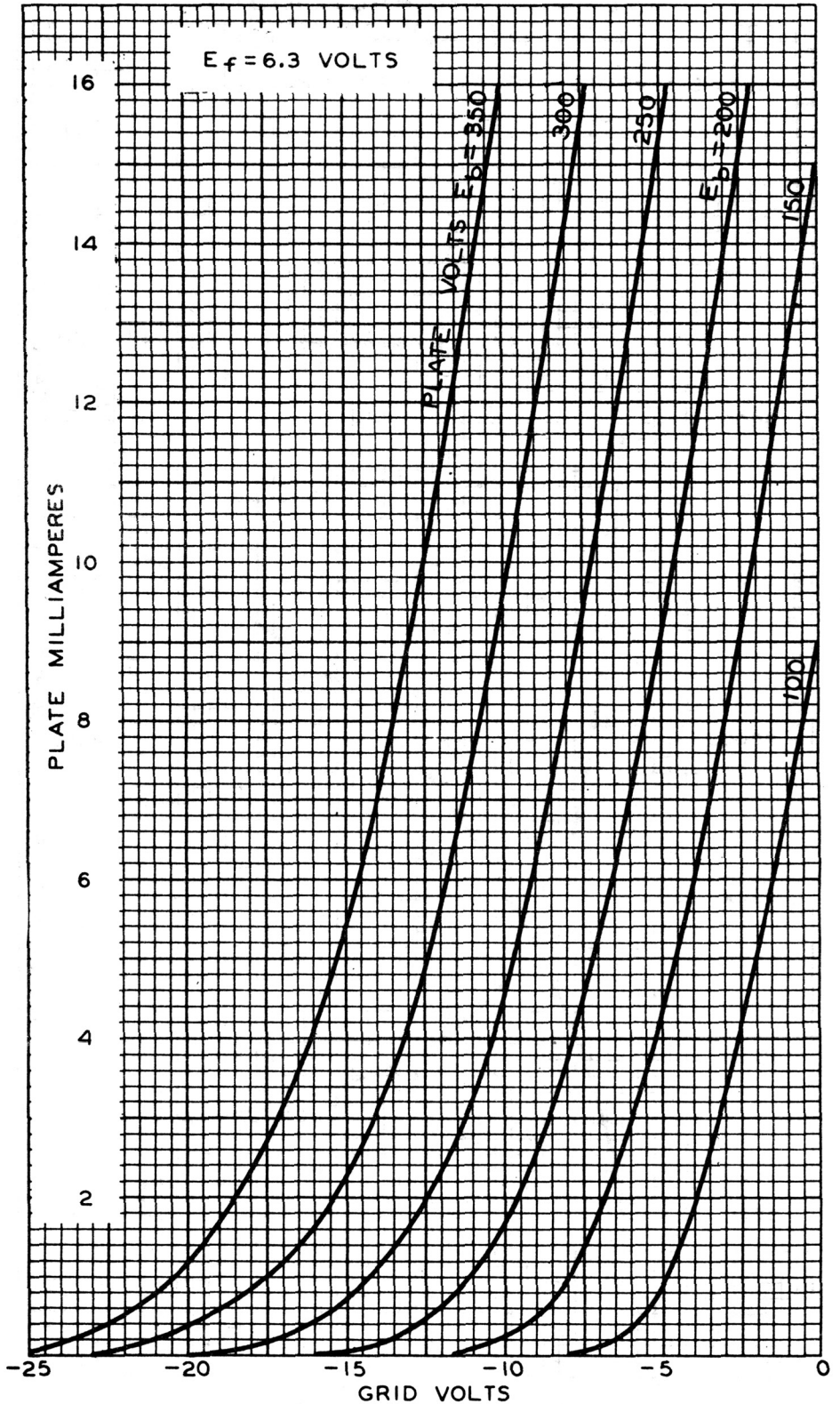


JULY 23, 1935

RCA VICTOR DIVISION
RADIO CORPORATION OF AMERICA HARRISON, NEW JERSEY

92C-4441

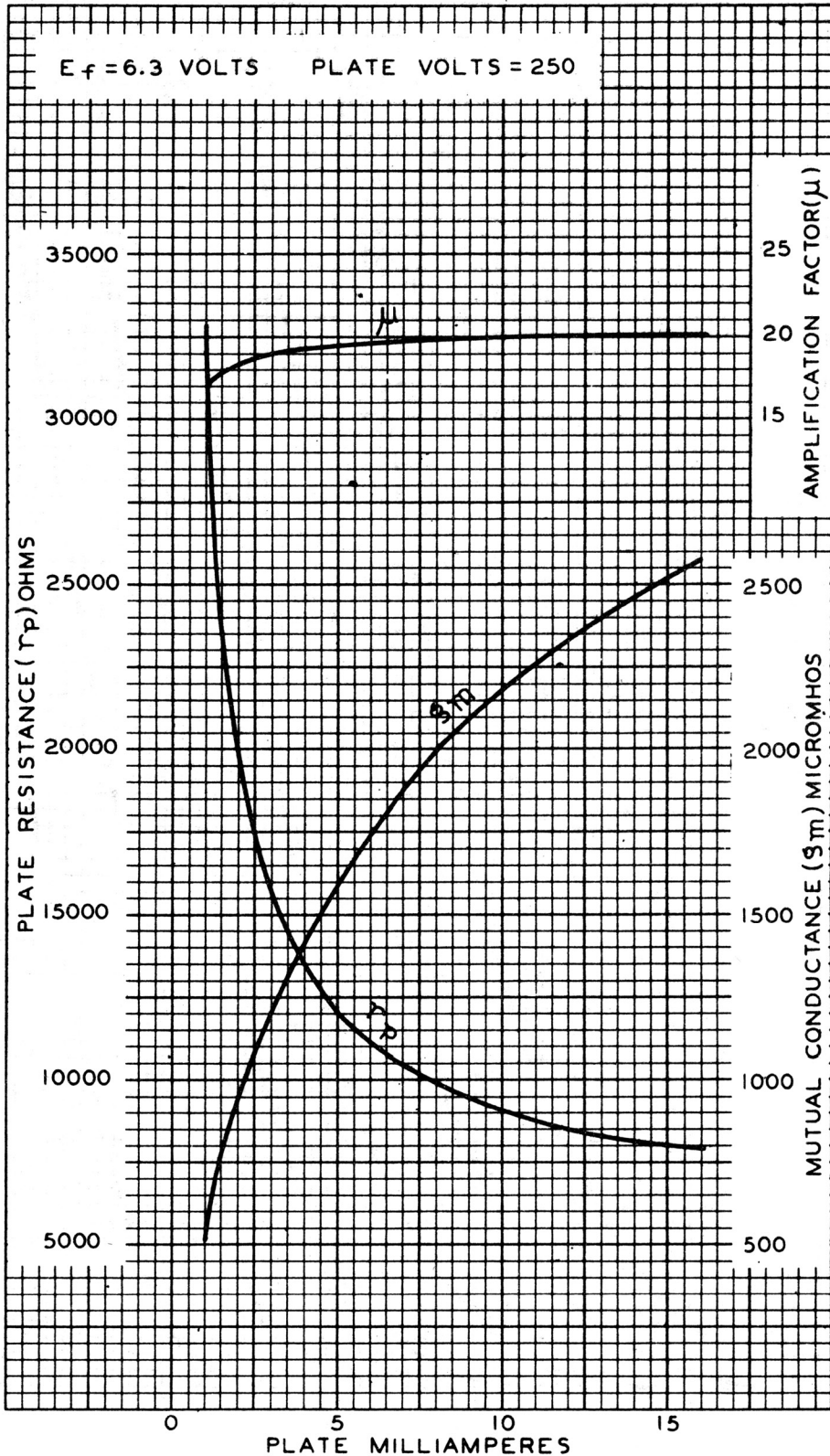
AVERAGE CHARACTERISTICS



VT-65
6C5



AVERAGE CHARACTERISTICS





VT-70
6F7

RCA-6F7

TRIODE-PENTODE

Heater * Coated Uni-potential Cathode
 Voltage 6.3 a-c or d-c volts
 Current 0.3 amp.

Direct Interelectrode Capacitances:

Triode Unit:
 Grid to Plate 2.0 μuf
 Grid to Cathode 2.5 μuf
 Plate to Cathode 3.0 μuf

Pentode Unit:
 Grid to Plate 0.008 max. [⊙] μuf
 Input 3.2 μuf
 Output 12.5 μuf

Overall Length 4-9/32" to 4-17/32"
 Maximum Diameter 1-9/16"
 Bulb ST-12
 Cap Small Metal
 Base Small 7-Pin [△]

Pin 1-Heater (2)
 Pin 2-Pentode Plate (6)
 Pin 3-Pentode Screen (1)
 Pin 4-Triode Plate (7)
 Pin 5-Triode Grid
 Pin 6-Cathode
 Pin 7-Heater
 Cap -Pentode Grid

BOTTOM VIEW

AMPLIFIER SERVICE

	Triode Unit	Pentode Unit		
Plate Voltage	100 max.	100	250	max. volts
Screen Voltage	-	100	100	max. volts
Grid Voltage	-3	-3	-3	min. volts
Amp. Fact.	8	300	900	
Plate Res.	16000	290000	850000	ohms
Mut. Cond.	500	1050	1100	μmhos
Mut. Cond. at -35 volts bias	-	9	10	μmhos
Plate Cur.	3.5	6.3	6.5	ma.
Screen Cur.	-	1.6	1.5	ma.

CONVERTER SERVICE

	Triode Unit	Pentode Unit		
Plate Voltage	100 max.	250	250	max. volts
Screen Voltage	-	100	100	max. volts
Grid Voltage	**	-3	-3	min.** volts
Oscillator Plate Cur. (av.)	4 max.	-	-	ma.

Typical Operation:

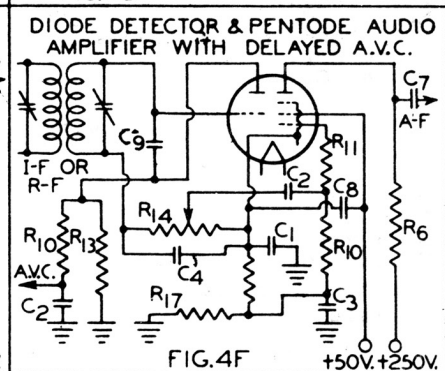
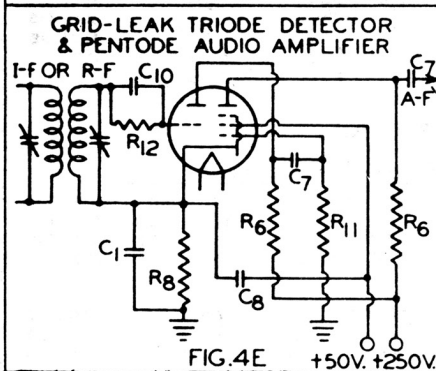
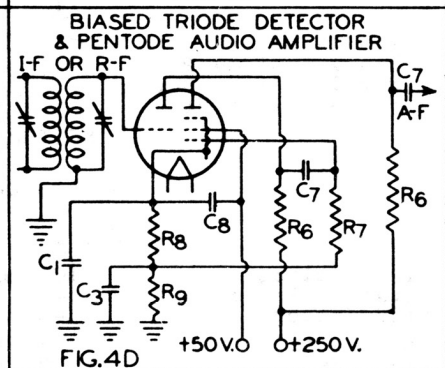
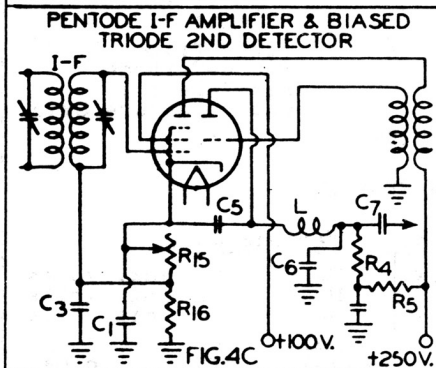
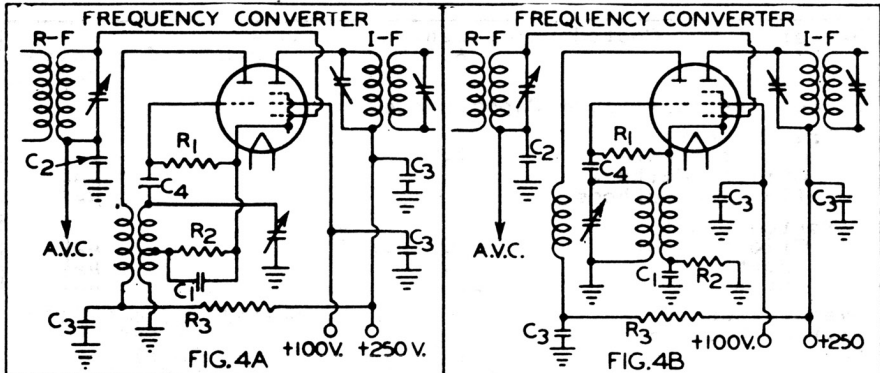
	Triode Unit	Pentode Unit		
Plate	100 [⊙]	250	250	volts
Screen	-	100	100 ^{⊙⊙}	volts
Grid Bias	**	-10	-10	volts
Plate Resistance	-	2	2	megohms
Conversion Conductance	-	300	300	μmhos
D-c Plate Current	2.4	2.8	2.8	ma.
D-c Grid Current	0.15	0	0	ma.
Screen Current	-	0.6	0.6	ma.
Oscillator Peak Voltage Input	-	7	7	volts

** Usually obtained by means of a grid leak.
 ** Grid bias should be at least .3 volts greater than the peak oscillator voltage applied to the pentode grid.
 ⊙ May be obtained from 250-volt source through 60000-ohm dropping resistor.
 ⊙⊙ Obtained by means of 1700-ohm self-biasing (cathode) resistor.
 * In circuits where the cathode is not directly connected to the heater, the potential difference between heater and cathode should be kept as low as possible.
 △ Requires different socket than medium 7-pin base.
 ⊙ With shield-can.

VT-70
6F7

RCA-6F7

TYPICAL CIRCUITS



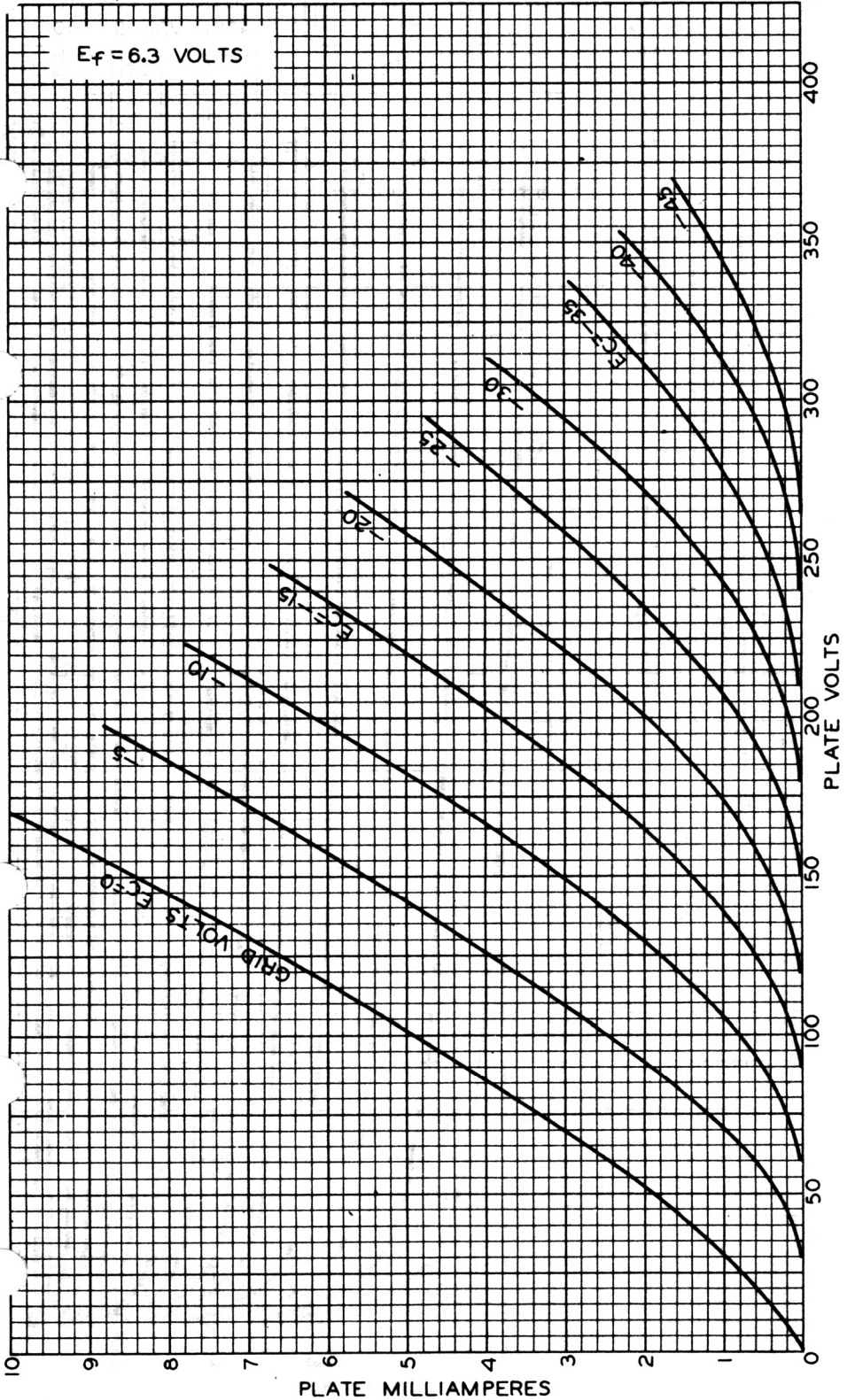
APPROXIMATE VALUES

- C₁ = 5 μf
- C₂ = 0.05 μf
- C₃ = 0.1 μf
- C₄ = 0.0002 μf
- C₅ = 0.0024 μf
- C₆ = 0.00016 μf
- C₇ = 0.01 μf
- C₈ = 0.5 μf
- C₉ = 0.0005 to 0.001 μf
- C₁₀ = 0.00025 μf
- L = I-F CHOKE COIL
- R₁ = OSCILLATOR GRID LEAK-0.1 MEGOHM

- R₂ = PENTODE SELF-BIASING RESISTOR-1500 OHMS
- R₃ = VOLTAGE DROPPING RESISTOR-50000 OHMS
- R₄ = PLATE COUPLING RESISTOR-170000 OHMS
- R₅ = FILTER RESISTOR-30000 OHMS
- R₆ = PLATE COUPLING RESISTOR-300000 OHMS
- R₇ = PENTODE GRID LEAK-0.5 MEGOHM
- R₈ = PENTODE SELF-BIASING RESISTOR-5000 OHMS
- R₉ = 10000 OHMS. R₉ + R₈ = TRIODE BIASING RESISTOR
- R₁₀ = FILTER RESISTOR-1.0 MEGOHM
- R₁₁ = GRID RESISTOR-500000 OHMS
- R₁₂ = TRIODE GRID LEAK-1.0 MEGOHM
- R₁₃ = A.V.C. DIODE LOAD-1.0 MEGOHM
- R₁₄ = A-F DIODE-LOAD POTENTIOMETER-0.5 MEGOHM
- R₁₅ = PENTODE SELF-BIASING RES. 4000 OHMS VAR.
- R₁₆ = 1500 OHMS. R₁₆ + R₁₅ = TRIODE BIASING RESISTOR

The license extended to the purchaser of tubes appears in the License Notice accompanying them. Information contained herein is furnished without assuming any obligations.

**AVERAGE PLATE CHARACTERISTICS
TRIODE UNIT**

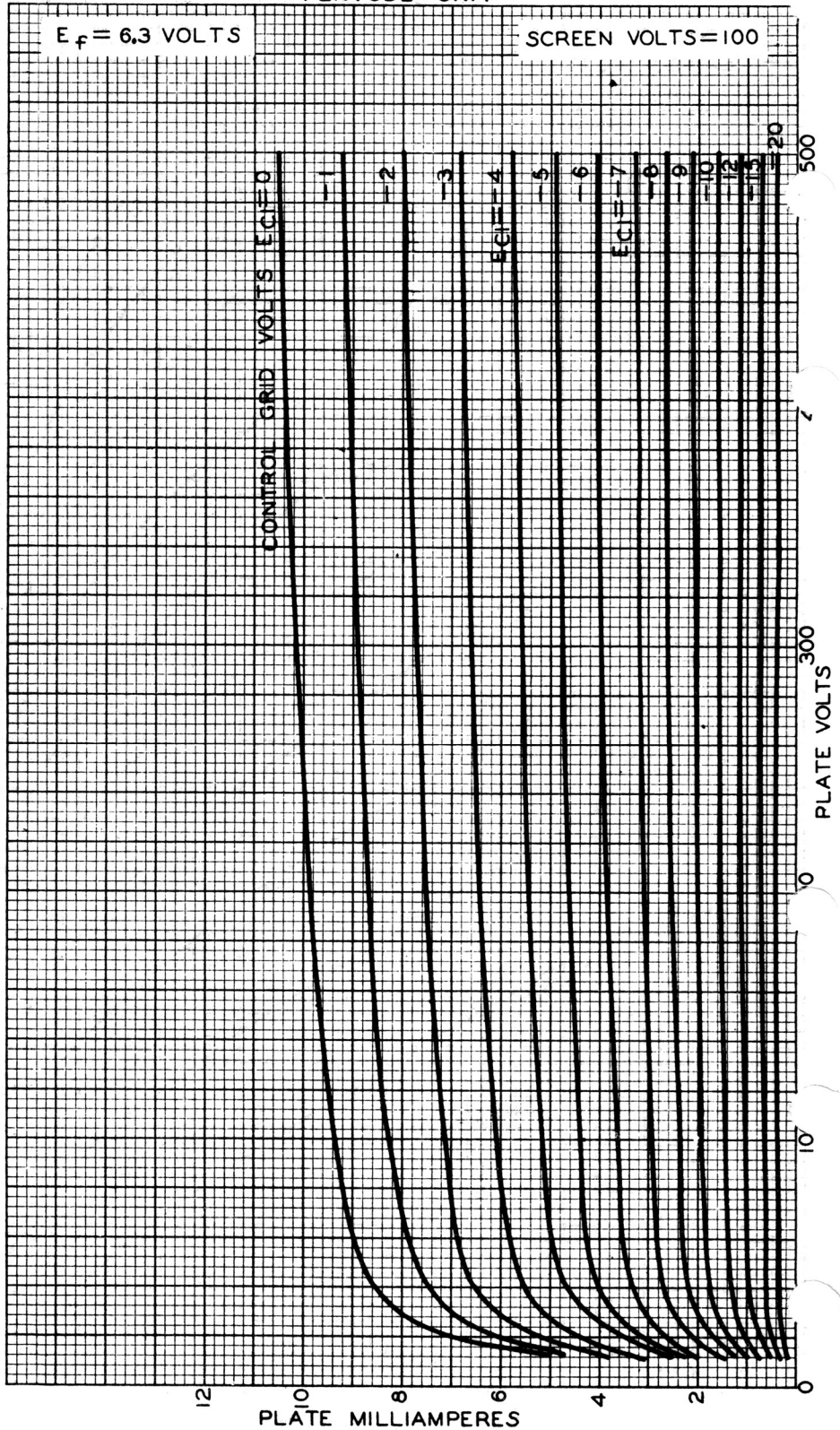


VT-70
6F7

RCA Radiotron
RCA-6F7

Cunningham
RADIO TUBES
C-6F7

AVERAGE PLATE CHARACTERISTICS
PENTODE UNIT





VT-91
6J7
6J7-G
6J7-GT

6J7, 6J7-G, 6J7-GT SHARP-CUTOFF PENTODE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage 6.3 ac or dc volts
Current 0.3 amp

Direct Interelectrode Capacitances:

Pentode Connection:	6J7 [▲]	6J7-G	6J7-GT	
Grid No. 1 to Plate	0.005 max.	0.007 max. ●	0.005 max. ●	μuf
Input	7 . .	4.6 ● . .	4.6 ● . .	μuf
Output	12 . .	12 ● . .	12 ● . .	μuf
Triode Connection:*				
Grid No. 1 to Plate	2 . .	1.8 □ . .	1.8 □ . .	μuf
Grid No. 1 to Cath.	5 . .	2.6 □ . .	2.6 □ . .	μuf
Plate to Cathode.	14 . .	17 □ . .	17 □ . .	μuf

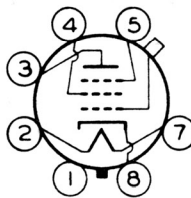
Mechanical:

Mounting Position . .	Any	Any	Any
Max. Overall Length .	3-1/8"	4-15/32"	3-5/16"
Seated Length	2-7/16" ± 1/8"	3-3/4" ± 5/32"	{ 2-5/16" to 2-3/4" }
Maximum Diameter. . .	1-5/16"	1-9/16"	1-5/16"
Bulb	{ Metal Shell MTT8A }	ST-12	T-9
Cap	Miniature	{ Skirted Miniature }	{ Skirted Miniature }
Base	{ Small-Wafer Octal 7-Pin }	{ Small-Shell Octal 7-Pin }	{ Small-Wafer Octal 7-Pin, Sleeve }
Basing Designation	7R	G-7R	GT-7R

BOTTOM VIEW

Pin 1 { 6J7 - Shell
6J7-G - Internal
Shield
6J7-GT - Base
Sleeve

Pin 2 - Heater
Pin 3 - Plate



Pin 4 - Grid No. 2
Pin 5 - Grid No. 3
Pin 7 - Heater
Pin 8 - Cathode

Cap - Grid No. 1

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
PLATE DISSIPATION 0.75 max. watt
GRID-NO. 2 DISSIPATION 0.1 max. watt

(continued on next page)

- ▲ With shell connected to cathode. □ Without external shield.
- With external shield connected to cathode.
- * With grid No. 2 and grid No. 3 connected to plate.

VT-91
6J7
6J7-G
6J7-GT



6J7, 6J7-G, 6J7-GT SHARP-CUTOFF PENTODE

GRID-No.1 (CONTROL-GRID) VOLTAGE:
 Positive bias value. 0/max. volts
 PEAK HEATER-CATHODE VOLTAGE:
 Heater negative with respect to cathode. . . 90 max. volts
 Heater positive with respect to cathode. . . 90 max. volts

Typical Operation and Characteristics:

Plate Voltage.	100	250	..	volts
Grid No.3 (Suppressor) .	Connected to cathode at socket			
Grid-No.2 Voltage.	100	100	..	volts
Grid-No.1 Voltage.	-3	-3	..	volts
Plate Resistance (Approx.)	1	#	..	megohm
Transconductance1185	1225	..	μhos
Grid-No.1 Bias (Approx.) for cathode-current cutoff.	-7	-7	..	volts
Plate Current.	2	2	..	ma
Grid-No.2 Current.	0.5	0.5	..	ma

Maximum Circuit Values:

Grid-No.1-Circuit Resistance 1 max. megohm

AMPLIFIER - Class A₁

Triode Connection - Grids No.2 & No.3 Connected to Plate

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE. 250 max. volts
 PLATE DISSIPATION (Total). 1.75 max. watts
 GRID-No.1 VOLTAGE:
 Positive bias value. 0 max. volts
 PEAK HEATER-CATHODE VOLTAGE:
 Heater negative with respect to cathode. . . 90 max. volts
 Heater positive with respect to cathode. . . 90 max. volts

Typical Operation and Characteristics:

Plate Voltage.	180	250	..	volts
Grid-No.1 Voltage.	-5.3	-8	..	volts
Amplification Factor	20	20		
Plate Resistance (Approx.)	11000	10500	..	ohms
Transconductance	1800	1900	..	μhos
Plate Current.	5.3	6.5	..	ma

Maximum Circuit Values:

Grid-No.1-Circuit Resistance 1 max. megohm

BIASED DETECTOR

Typical Operation:

Plate-Supply Voltage♦.	100	100	250	250	volts
Grid No.3.	Connected to cathode at socket				
Grid-No.2 Voltage.	12	30	50	100	volts
RF Grid-No.1 Volts (RMS)*	1.05	1.6	1.18	1.37	volts

#,♦,*: See next page.



VT-91
6J7
6J7-G
6J7-GT

6J7, 6J7-G, 6J7-GT SHARP-CUTOFF PENTODE

Cathode-Bias Resistor.	18000	10000	3000	10000	ohms
Zero-Sig. Cathode Cur.	0.063	0.183	0.65	0.43	ma
Plate Resistor	1.0	0.25	0.25	0.5	megohm
Blocking Capacitor . .	0.01	0.01	0.3	0.3	μ f
Grid Resistor [Ⓢ]	1.0	0.5	0.25	0.25	megohm

Maximum Circuit Values:

Grid-No.1-Circuit Resistance 1 max. megohm

* Greater than 1 megohm.

◆ Voltage at plate will be "Plate-Supply" voltage minus voltage drop in plate resistor caused by plate current.

★ With these signal values modulated 20%, the voltage output under each set of conditions is 17 peak volts at the grid of the following amplifier. This value is sufficient to insure full audio output from a 6F6 (class A pentode) at 250 volts on plate.

Ⓢ For the following amplifier tube.

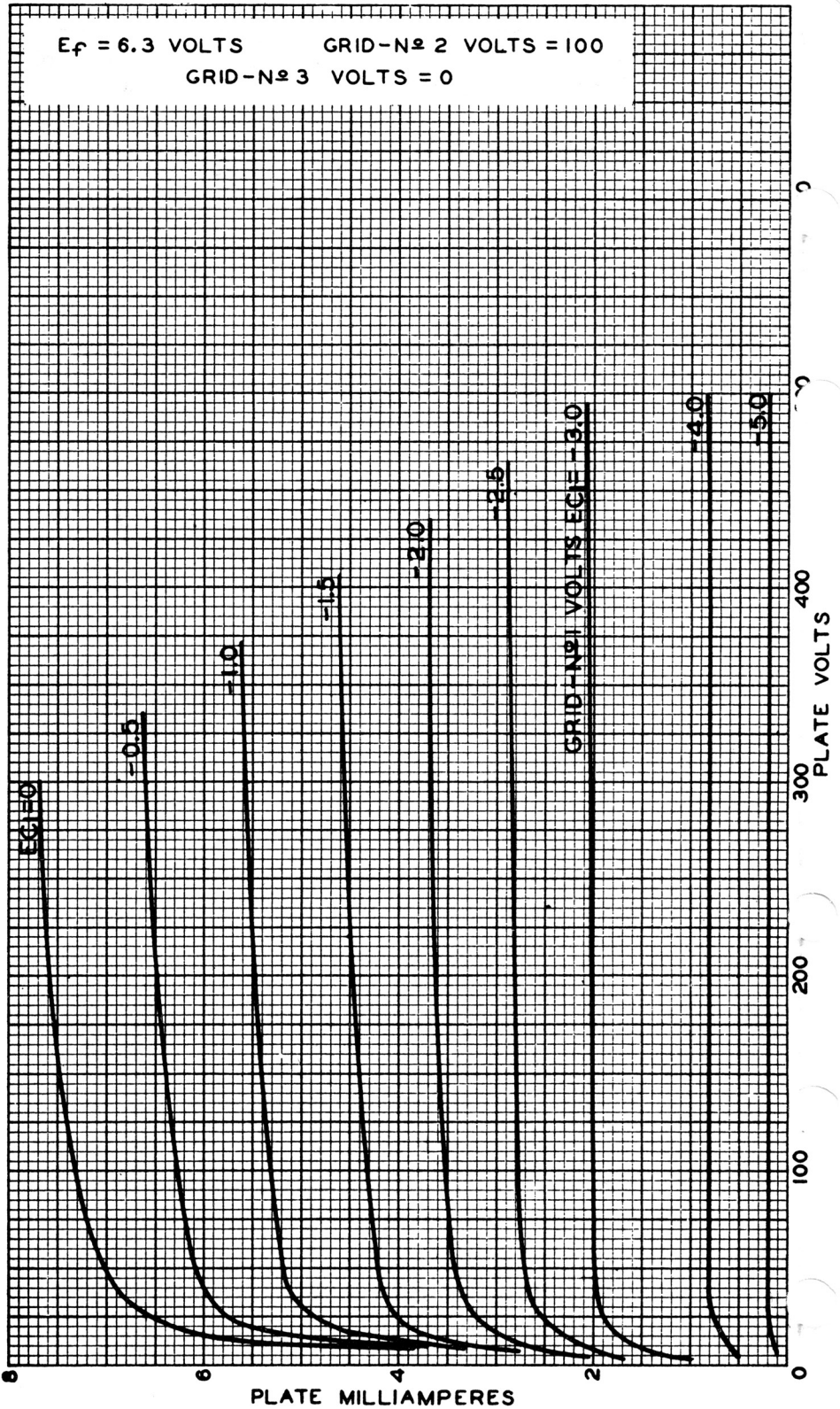
For additional data, see RESISTANCE-COUPLED AMPLIFIER CHARTS at the front of this Section.

VT-91
6J7



6J7

AVERAGE PLATE CHARACTERISTICS



MAY 12, 1948

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

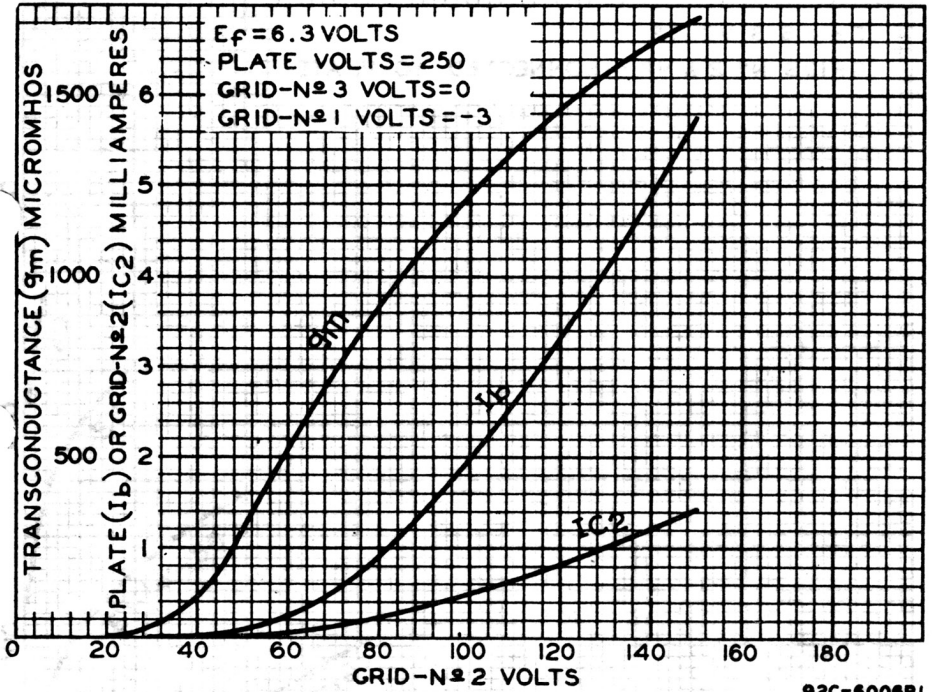
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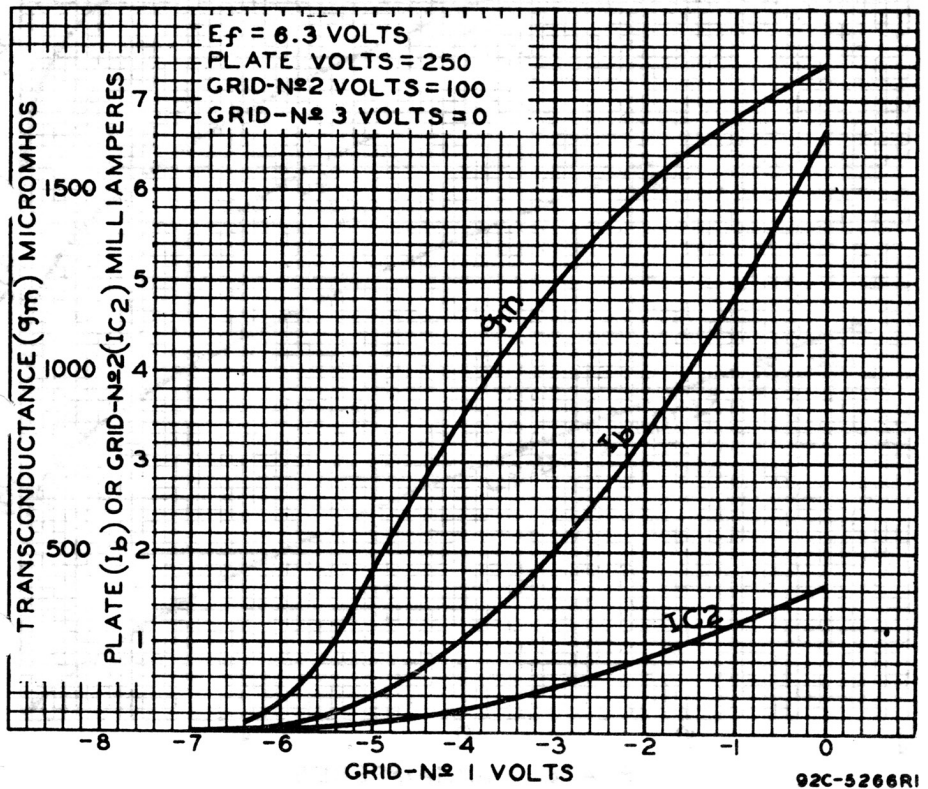
6J7

VT-91
6J7

AVERAGE CHARACTERISTICS



AVERAGE CHARACTERISTICS



MAY 18, 1948

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

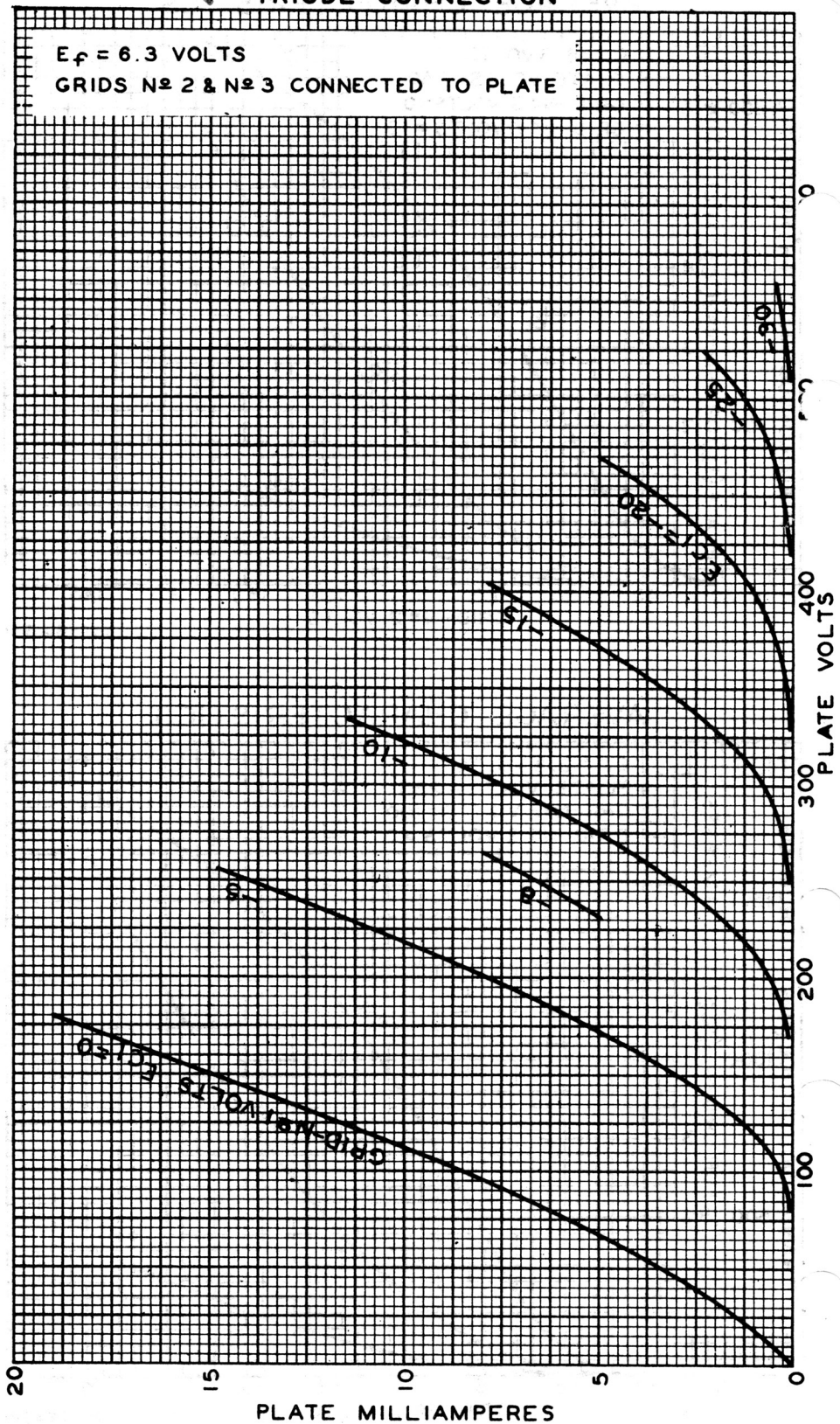
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VT-91
6J7



6J7

AVERAGE PLATE CHARACTERISTICS TRIODE CONNECTION



MAY 11, 1948

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-4842RI



6K6-GT

POWER PENTODE

VT-152
6K6-GT

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage 6.3 ac or dc volts
Current 0.4 amp

Direct Interelectrode Capacitances (Approx.):^o

Grid No.1 to plate. 0.5 μf
Grid No.1 to cathode & grid No.3,
grid No.2, and heater 5.5 μf
Plate to cathode & grid No.3,
grid No.2, and heater 6 μf

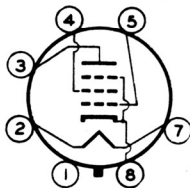
Mechanical:

Mounting Position Any
Maximum Overall Length 3-5/16"
Maximum Seated Length 2-3/4"
Maximum Diameter 1-9/32"
Dimensional Outline See General Section

Bulb T-9
Base Intermediate-Shell Octal 7-Pin (JETEC No. B7-7),
Short Intermediate-Shell Octal 7-Pin
with External Barriers (JETEC No. B7-59),
Intermediate-Shell Octal 6-Pin (JETEC No. B6-81),
or Short Intermediate-Shell Octal 6-Pin
with External Barriers (JETEC No. B6-84)

Basing Designation for BOTTOM VIEW 7S

Pin 1 ♦ - No Connection
Pin 2 - Heater
Pin 3 - Plate
Pin 4 - Grid No.2



Pin 5 - Grid No.1
Pin 7 - Heater
Pin 8 - Cathode,
Grid No.3

AF POWER AMPLIFIER - Class A₁

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE 315 max. volts
GRID-No.2 (SCREEN-GRID) VOLTAGE 285 max. volts
GRID-No.1 (CONTROL-GRID) VOLTAGE:
Positive bias value 0 max. volts
GRID-No.2 INPUT 2.8 max. watts
PLATE DISSIPATION 8.5 max. watts
PEAK HEATER-CATHODE VOLTAGE:
Heater negative with respect to cathode 200 max. volts
Heater positive with respect to cathode 200[▲] max. volts

^o Without external shield.
♦ Pin 1 as well as pin 6 is omitted on the 6-Pin bases.

[▲]: See next page. ← Indicates a change.

VT-152
6K6-GT



6K6-GT

POWER PENTODE

Typical Operation and Characteristics:

Plate Voltage	100	250	315	volts
Grid-No.2 Voltage	100	250	250	volts
Grid-No.1 Voltage	-7	-18	-21	volts
Peak AF Grid-No.1 Voltage . .	7	18	21	volts
Zero-Signal Plate Current . .	9	32	25.5	ma
Max.-Signal Plate Current . .	9.5	33	28	ma
Zero-Signal Grid-No.2 Current	1.6	5.5	4	ma
Max.-Signal Grid-No.2 Current	3	10	9	ma
Plate Resistance (Approx.) . .	104000	90000	110000	ohms
Transconductance	1500	2300	2100	μmhos
Load Resistance	12000	7600	9000	ohms
Total Harmonic Distortion . .	11	11	15	%
Max.-Signal Power Output . .	0.35	3.4	4.5	watts

Maximum Circuit Values:

Grid-No.1-Circuit Resistance:

For fixed-bias operation	0.1 max.	megohm
For cathode-bias operation	0.5 max.	megohm

PUSH-PULL AF POWER AMPLIFIER - Class A₁

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE	315 max.	volts
GRID-No.2 (SCREEN-GRID) VOLTAGE	285 max.	volts
GRID-No.1 (CONTROL-GRID) VOLTAGE:		
Positive bias value	0 max.	volts
GRID-No.2 INPUT	2.8 max.	watts
PLATE DISSIPATION	8.5 max.	watts
→ PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode.	200 max.	volts
Heater positive with respect to cathode.	200 [▲] max.	volts

Typical Operation:

Values are for 2 tubes

	Fixed Bias	Cathode Bias	
Plate Voltage	285	285	volts
Grid-No.2 Voltage	285	285	volts
Grid-No.1 Voltage	-25.5	-	volts
Cathode Resistor	-	400	ohms
Peak AF Grid-No.1-to-			
Grid-No.1 Voltage	51	51	volts
Zero-Signal Plate Current . .	55	55	ma
Max.-Signal Plate Current . .	72	61	ma
Zero-Signal Grid-No.2 Current	9	9	ma
Max.-Signal Grid-No.2 Current	17	13	ma

▲: See next page.

→ Indicates a change.



VT-152
6K6-GT

6K6-GT

POWER PENTODE

	<i>Fixed Bias</i>	<i>Cathode Bias</i>	
Effective Load Resistance (Plate to plate)	12000	12000	ohms
Total Harmonic Distortion . .	6	4	%
Max.-Signal Power Output. . .	10.5	9.8	watts

Maximum Circuit Values:

Grid-No.1-Circuit Resistance:			
For fixed-bias operation.		0.1 max.	megohm
For cathode-bias operation.		0.5 max.	megohm

AF POWER AMPLIFIER - Class A₁

Triode Connection - Grid No.2 Connected to Plate

Characteristics:

Plate Voltage	250	volts
Grid-No.1 Voltage	-18	volts
Amplification Factor.	6.8	
Plate Resistance (Approx.)	2500	ohms
Transconductance.	2700	μmhos
Plate Current	37.5	ma
Grid-No.1 Voltage (Approx.) for plate current of 0.5 ma	-48	volts

VERTICAL DEFLECTION AMPLIFIER

Triode Connection - Grid No.2 Connected to Plate

Maximum Ratings, Design-Center Values. Except as Noted:

For operation in a 525-line, 30-frame system[□]

DC PLATE VOLTAGE.	315 max.	volts
PEAK POSITIVE-PULSE PLATE VOLTAGE (Absolute maximum) [#]	1200 [■] max.	volts
PEAK NEGATIVE-PULSE GRID-No.1 VOLTAGE . .	-250 max.	volts
CATHODE CURRENT:		
Peak.	75 max.	ma
Average	25 max.	ma
PLATE DISSIPATION	7 max.	watts
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode.	200 max.	volts
Heater positive with respect to cathode.	200 [▲] max.	volts

Maximum Circuit Values:

Grid-No.1-Circuit Resistance:		
For cathode-bias operation.	2.2 max.	megohms

[▲] The dc component must not exceed 100 volts.

[□] As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations", Federal Communications Commission.

[#] This rating is applicable where the duration of the voltage pulse does not exceed 15 per cent of one vertical scanning cycle. In a 525-line, 30-frame system, 15 percent of one vertical scanning cycle is 2.5 milliseconds.

[■] Under no circumstances should this absolute value be exceeded.

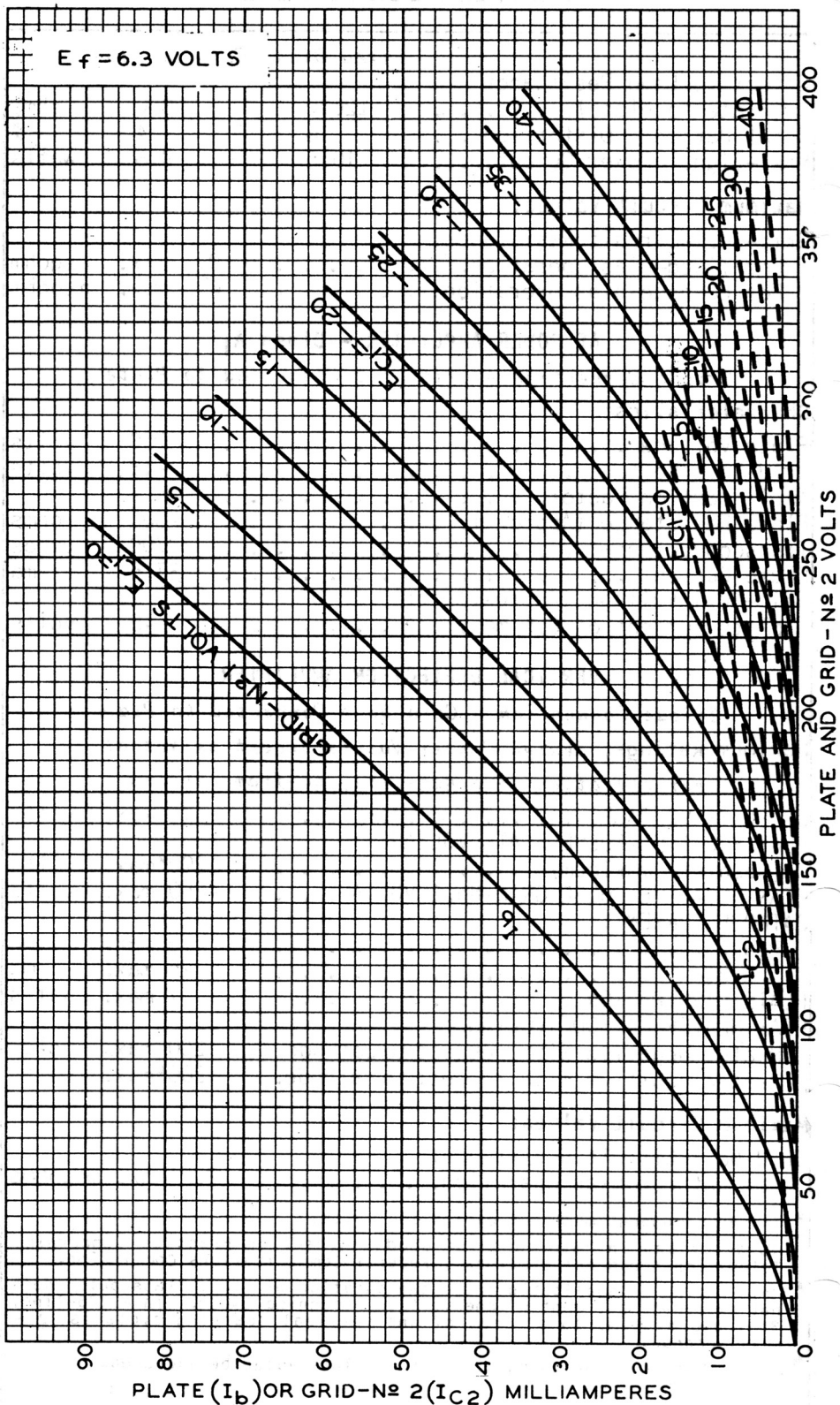
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VT-152
6K6-GT



6K6-GT

AVERAGE CHARACTERISTICS



TUBE DIVISION

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

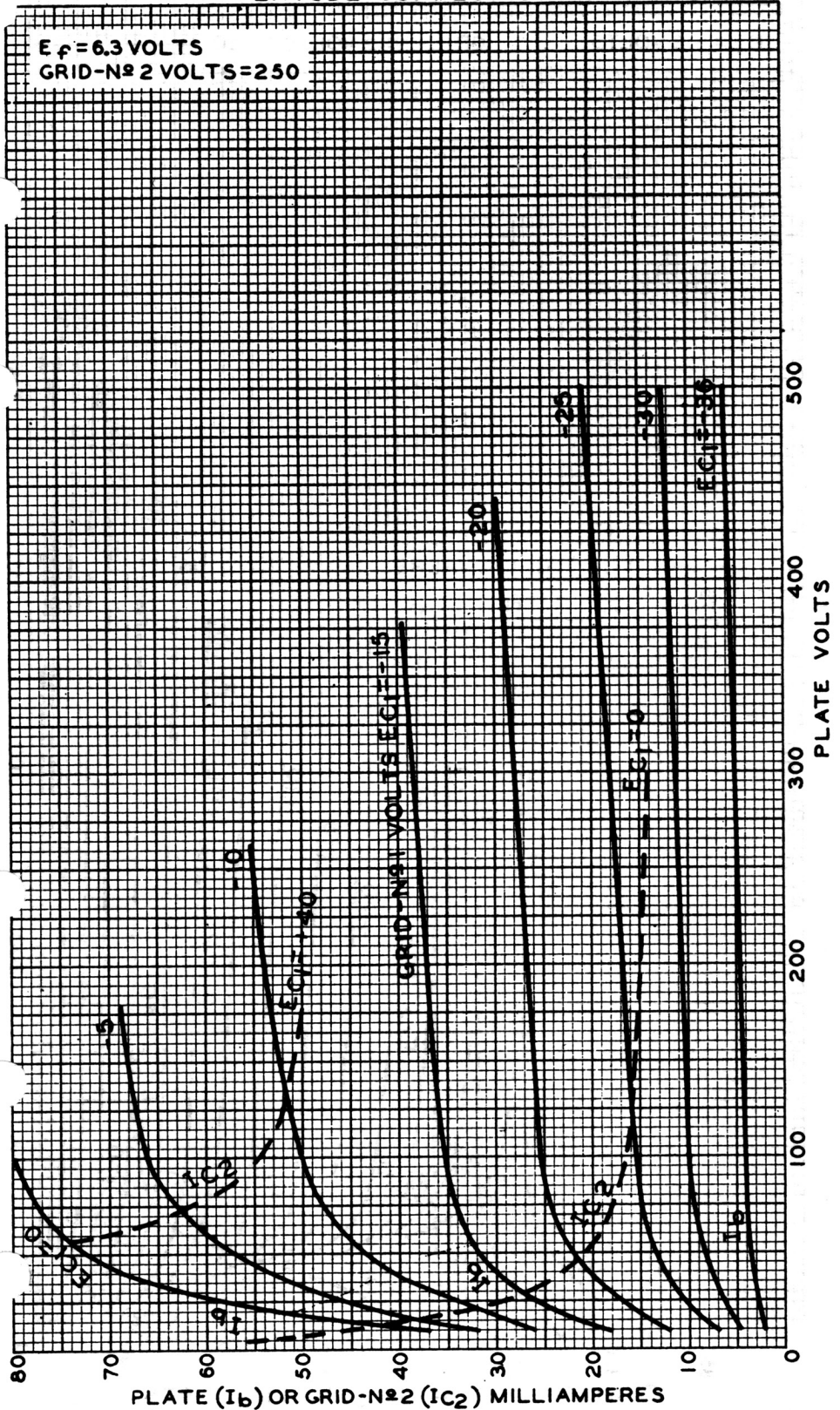
92CM-5209R2



VT-152
6K6-GT

6K6-GT

AVERAGE PLATE CHARACTERISTICS PENTODE CONNECTION



FEB. 13, 1948

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

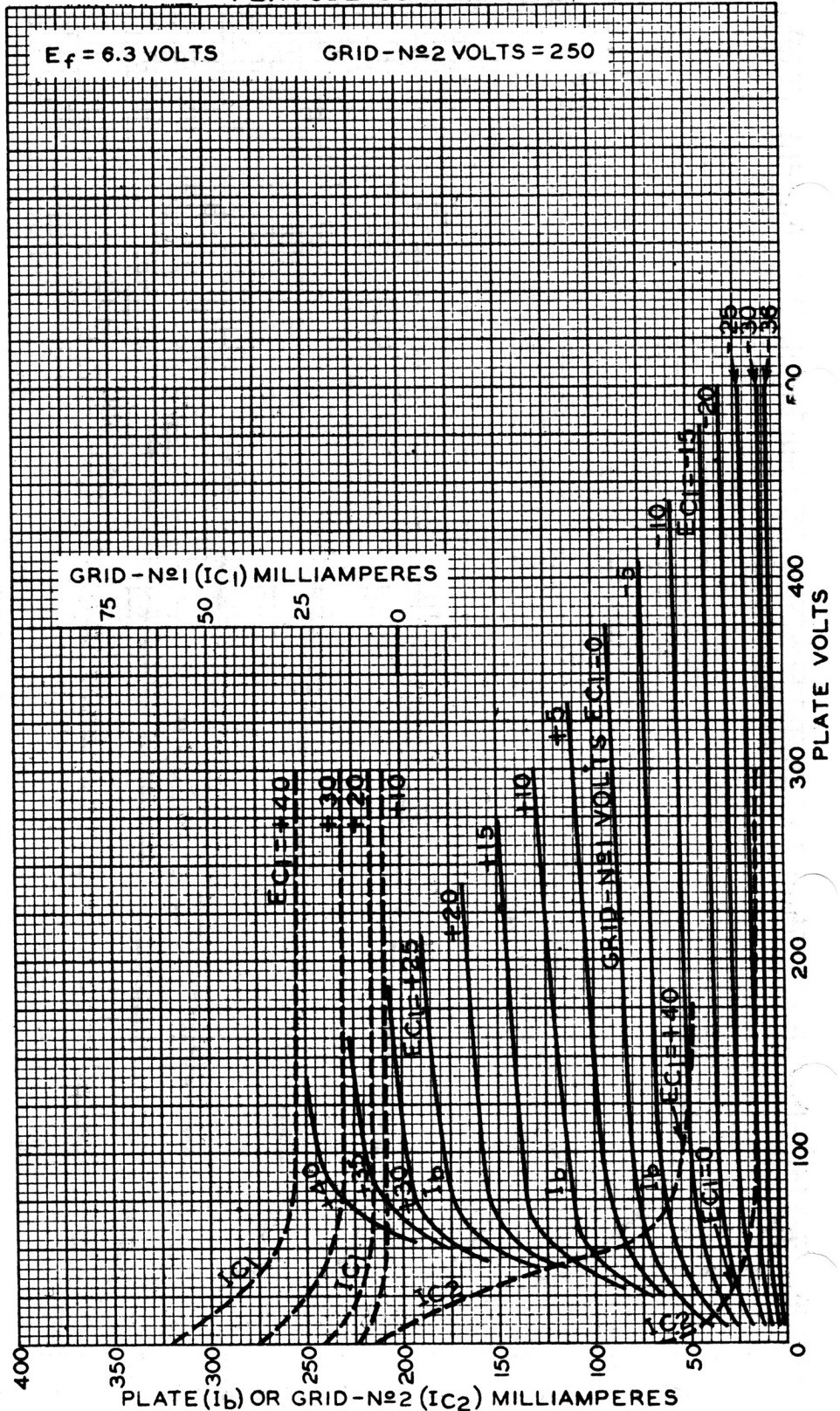
92CM-4881R2

VT-152
6K6-GT



6K6-GT

AVERAGE PLATE CHARACTERISTICS PENTODE CONNECTION



FEB. 13, 1948

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-6311R1

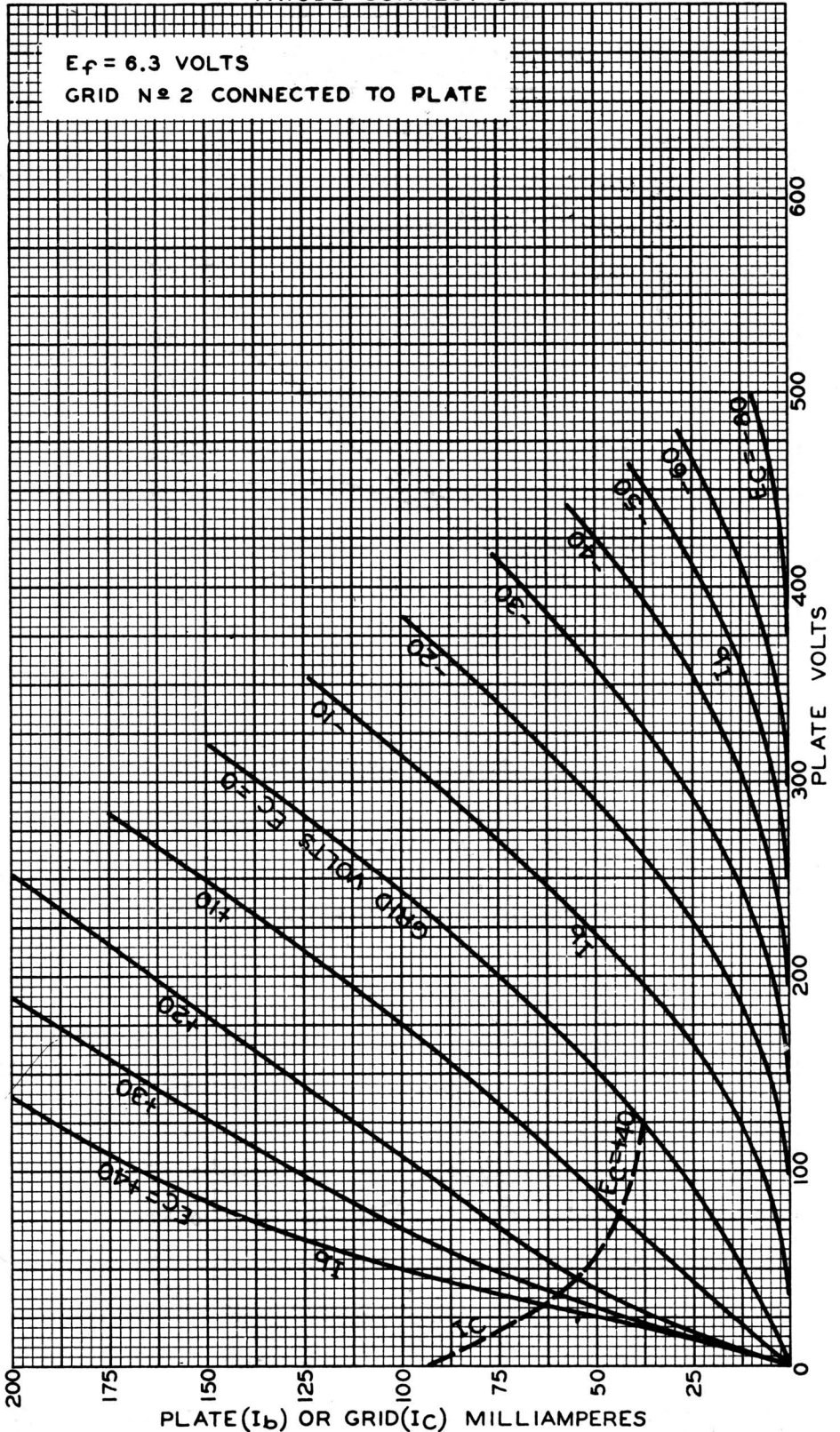


6K6-GT

6K6-GT

AVERAGE PLATE CHARACTERISTICS

TRIODE CONNECTION



AUG. 18, 1941

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

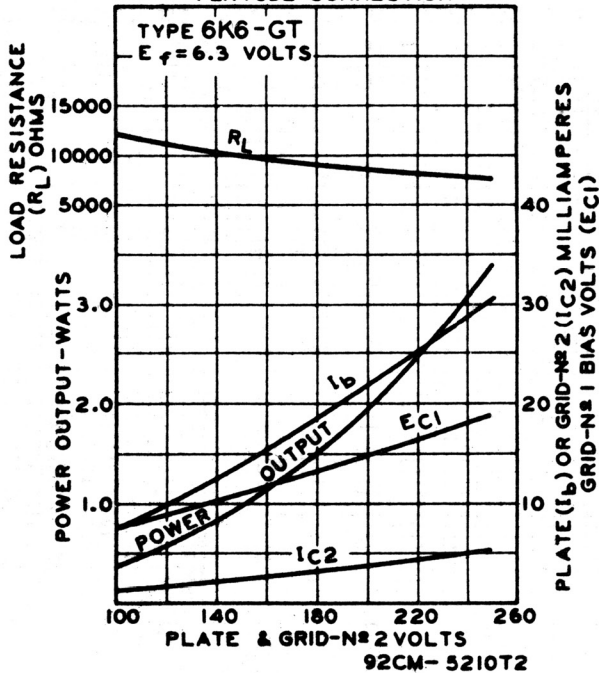
92CM-6313

VT-152
6K6-GT

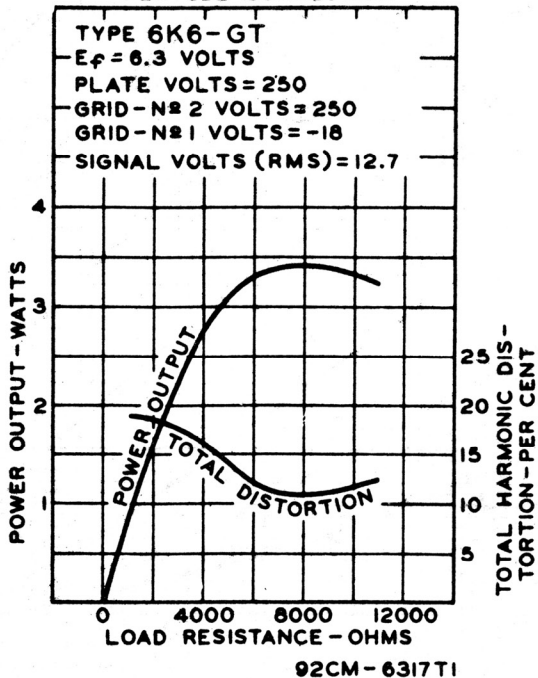


6K6-GT POWER PENTODE

OPERATION CHARACTERISTICS
PENTODE CONNECTION



OPERATION CHARACTERISTICS
PENTODE CONNECTION



OCTOBER 1, 1951

TUBE DEPARTMENT

CE-5210T2 - 6317T1

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

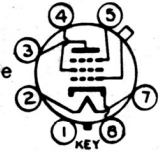


6K7, 6K7-G, 6K7-GT

VT-86
6K7
6K7-G
6K7-GT

TRIPLE-GRID SUPER-CONTROL AMPLIFIER

Heater		Coated Unipotential Cathode		
Voltage	6.3	a-c or d-c volts		
Current	0.3	amp.		
	6K7	6K7-G	6K7-GT	
Direct Interelectrode Cap.	▲	▲▲	▲▲	
Grid to Plate	0.005	0.007	0.005	μf
Input	7	5	4.6	μf
Output	12	12	12	μf
Overall Length	{ 3-1/8" max.	{ 4-7/32" to 4-15/32"	3-5/16" max.	
Seated Height	{ 2-9/16" max.	{ 3-21/32" to 3-29/32"	2-3/4" max.	
Maximum Diameter	1-5/16"	1-9/16"	1-5/16"	
Bulb	Metal Shell, MT-8	ST-12	T-9	
Cap	Miniature	{ Skirted Min. Style C	{ Skirted Min. Style C	
Base	{ Small Wafer Octal 7-Pin	{ Small Shell Octal 7-Pin	{ Sm. Wafer Octal 7-Pin, Sleeve	
Basing Designation	7R	G-7R	GT-7R	
Pin 1	{ 6K7, Shell 6K7-G, No Con. 6K7-GT, Base Sleeve		Pin 4 - Screen	
Pin 2	Heater		Pin 5 - Suppressor	
Pin 3	Plate		Pin 7 - Heater	
Mounting Position			Pin 8 - Cathode	
			Cap - Grid	Any
Plate Voltage		300 max.	volts	
Screen Voltage		125 max.	volts	
Screen Supply Voltage		300 max.	volts	
Grid Voltage		0 min.	volts	
Plate Dissipation		2.75 max.	watts	
Screen Dissipation		0.35 max.	watt	
Typical Operation and Characteristics - Class A₁ Amplifier:				
Plate	100	250	250	volts
Screen	100	100	125	volts
Grid	-1	-3	-3	volts
Suppressor	Connected to cathode at socket			
Plate Res.	0.15	0.8	0.6	approx. megohm
Transcond.	1650	1450	1650	μmhos
Grid Bias for transcond.				
of approx. 2 μmhos	-38.5	-42.5	-52.5	volts
Plate Cur.	9.5	7.0	10.5	ma.
Screen Cur.	2.7	1.7	2.6	ma.



BOTTOM VIEW
AMPLIFIER

■ In circuits where the cathode is not directly connected to the heater, the potential difference between heater and cathode should be kept as low as possible.

▲ With shell connected to cathode.

▲▲ With close-fitting shield connected to cathode. The internal shield in the dome is connected to cathode within 6K7-G and 6K7-GT.

Curves under Type 78 also apply to the 6K7, 6K7-G, and 6K7-GT.

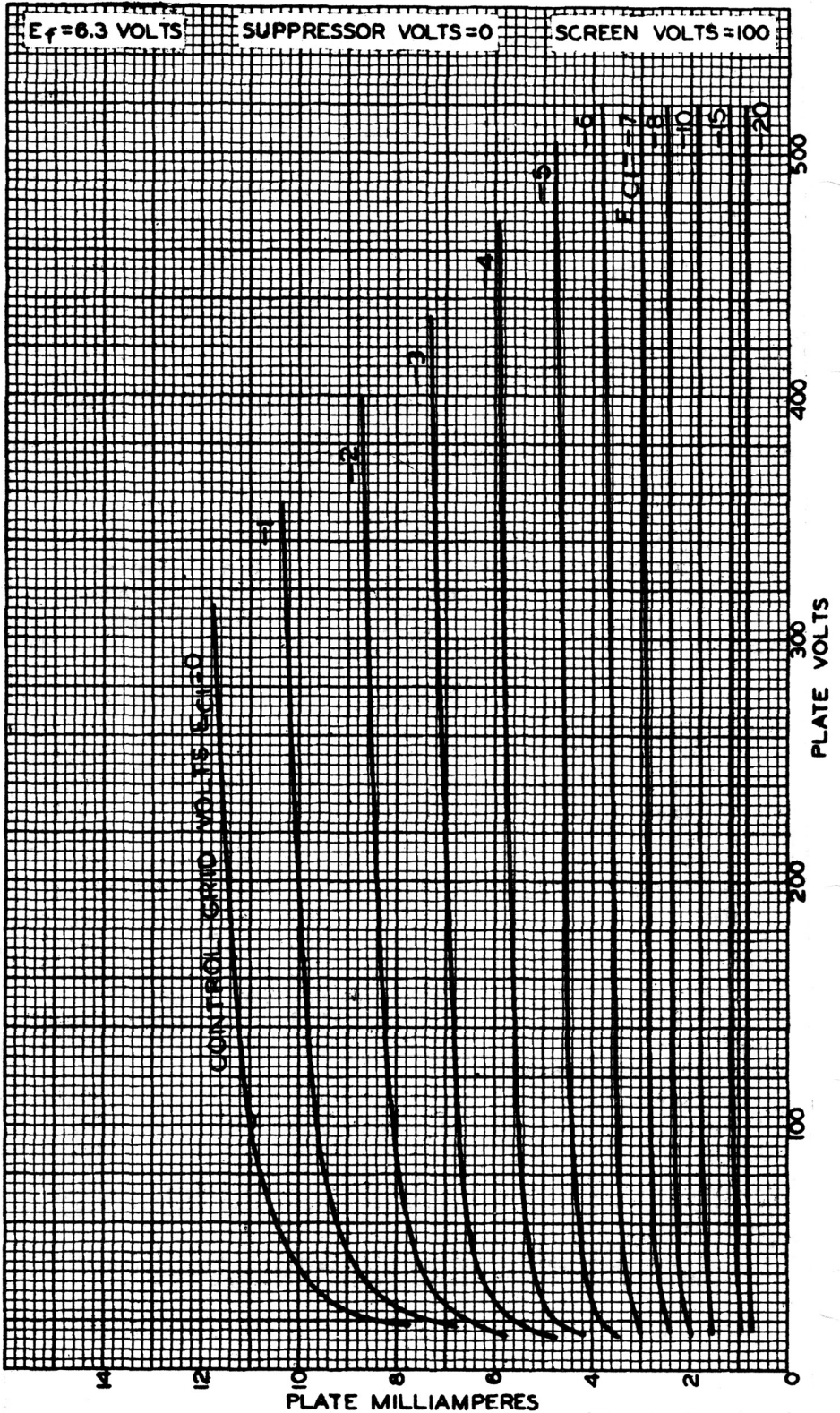
← Indicates a change.

VT-86
6K7



6K7

AVERAGE PLATE CHARACTERISTICS



FEB. 24, 1937

RCA RADIOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.

92C-4742

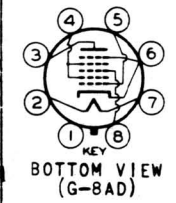


6SA7
6SA7-GT/G

6SA7, 6SA7-GT/G

PENTAGRID CONVERTER

Heater [■]	Coated Unipotential Cathode	
Voltage	6.3	a-c or d-c volts
Current	0.3	amp.
Direct Interelectrode Capacitances:	6SA7	6SA7-GT/G
Grid #3 to All Other Electrodes (R-F Input)	9.5 [▲]	11 ^{▲▲} μf
Plate to All Other Electrodes (Mixer Output)	12 [▲]	11 ^{▲▲} μf
Grid #1 to All Other Electrodes (Osc. Input)	7 [▲]	8 ^{▲▲} μf
Grid #3 to Plate	0.13 max. [▲]	0.5 max. ^{▲▲} μf
Grid #3 to Grid #1	0.15 max. [▲]	0.4 max. ^{▲▲} μf
Grid #1 to Plate	0.06 max. [▲]	0.2 max. ^{▲▲} μf
Grid #1 to Shell, Grid #5, and All Other Electrodes except Cathode	4.4	- μf
Grid #1 to All Other Electrodes except Cathode & Grid #5	-	5 μf
Grid #1 to Cathode	2.6	- μf
Grid #1 to Cathode & Grid #5	-	3 μf
Cathode to Shell, Grid #5, and All Other Electrodes except Grid #1	5	- μf
Cathode and Grid #5 to All Other Electrodes except Grid #1	-	14 μf
Maximum Overall Length	2-5/8"	3-5/16"
Maximum Seated Height	2-1/16"	2-3/4"
Maximum Diameter	1-5/16"	1-5/16"
Bulb	Metal Shell MT-8	T-9
Base	{ Small Wafer { Octal 8-Pin	{ Intermed. Sh. { Octal 8-Pin
Pin 1	{ 6SA7, Shell, Grid #5 { 6SA7-GT/G, No Conn.	
Pin 2	- Heater	
Pin 3	- Plate	
Pin 4	- Grids #2 & #4	
Pin 5	- Grid #1	
Pin 6	{ 6SA7, Cathode { 6SA7-GT/G, Cathode & Grid #5	
Pin 7	- Heater	
Pin 8	- Grid #3	
Mounting Position		Any



Maximum And Minimum Ratings Are Design-Center Values

CONVERTER SERVICE

Plate Voltage	300 max. volts
Grids #2 & #4 Voltage	100 max. volts
Grids #2 & #4 Supply Voltage	300 max. volts
Grid #3 Voltage *	0 min. volts
Plate Dissipation	1.0 max. watt
Screen Dissipation	1.0 max. watt
Total Cathode Current	14 max. ma.

■ In circuits where the cathode is not directly connected to the heater, the potential difference between heater and cathode should be kept as low as possible.

▲ With shell connected to cathode.

▲▲ With external shield connected to cathode.

* For self-excited oscillator.

← Indicates a change.

VT-150
6SA7
6SA7-GT/G



6SA7, 6SA7-GT/G PENTAGRID CONVERTER

(continued from preceding page)

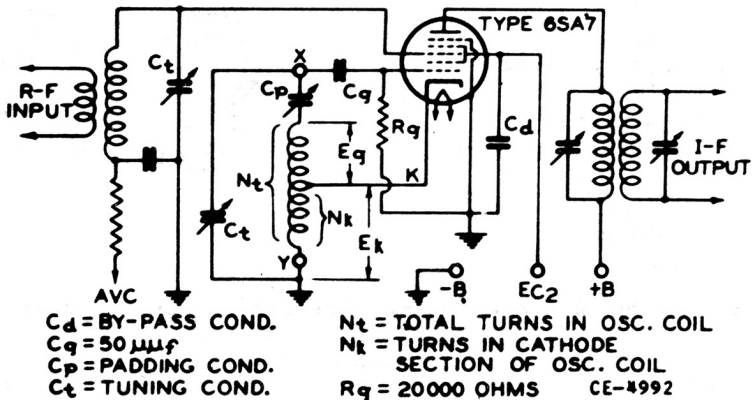
Characteristics:	Self-excitation*		Separate Excitation		
Plate Voltage	100	250	100	250	volts
Grids #2 & #4 Volt.	100	100	100	100	volts
Grid #3 (Control) Volt.	0	0	-2	-2	volts
Grid #1 Resistor	20000	20000	20000	20000	ohms
Plate Res. (Approx.)	0.5	1.0	0.5	1.0	megohm
Conversion Transcond.	425	450	425	450	μmhos
Conversion Transcond. (Approx.) †	2	2	2	2	μmhos
Plate Current	3.3	3.5	3.3	3.5	ma.
Grids #2 & #4 Current	8.5	8.5	8.5	8.5	ma.
Grid #1 Current	0.5	0.5	0.5	0.5	ma.
Total Cathode* Current	12.3	12.5	12.3	12.5	ma.

NOTE: The transconductance between Grid #1 and Grids #2 & #4 connected to plate (not oscillating) is approximately 4500 μmhos under the following conditions: Grids #1, #3, and shell at 0 volts; Grids #2 & #4 and plate at 100 volts.

* Characteristics are approximate only and are shown for a Hartley circuit with a feedback of approximately 2 volts peak in the cathode circuit.

† With Grid #3 bias of -35 volts.

TYPICAL SELF-EXCITED CONVERTER CIRCUIT
FOR TYPE 6SA7



The license extended to the purchaser of tubes appears in the License Notice accompanying them. Information contained herein is furnished without assuming any obligations.

Jan. 1, 1943

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

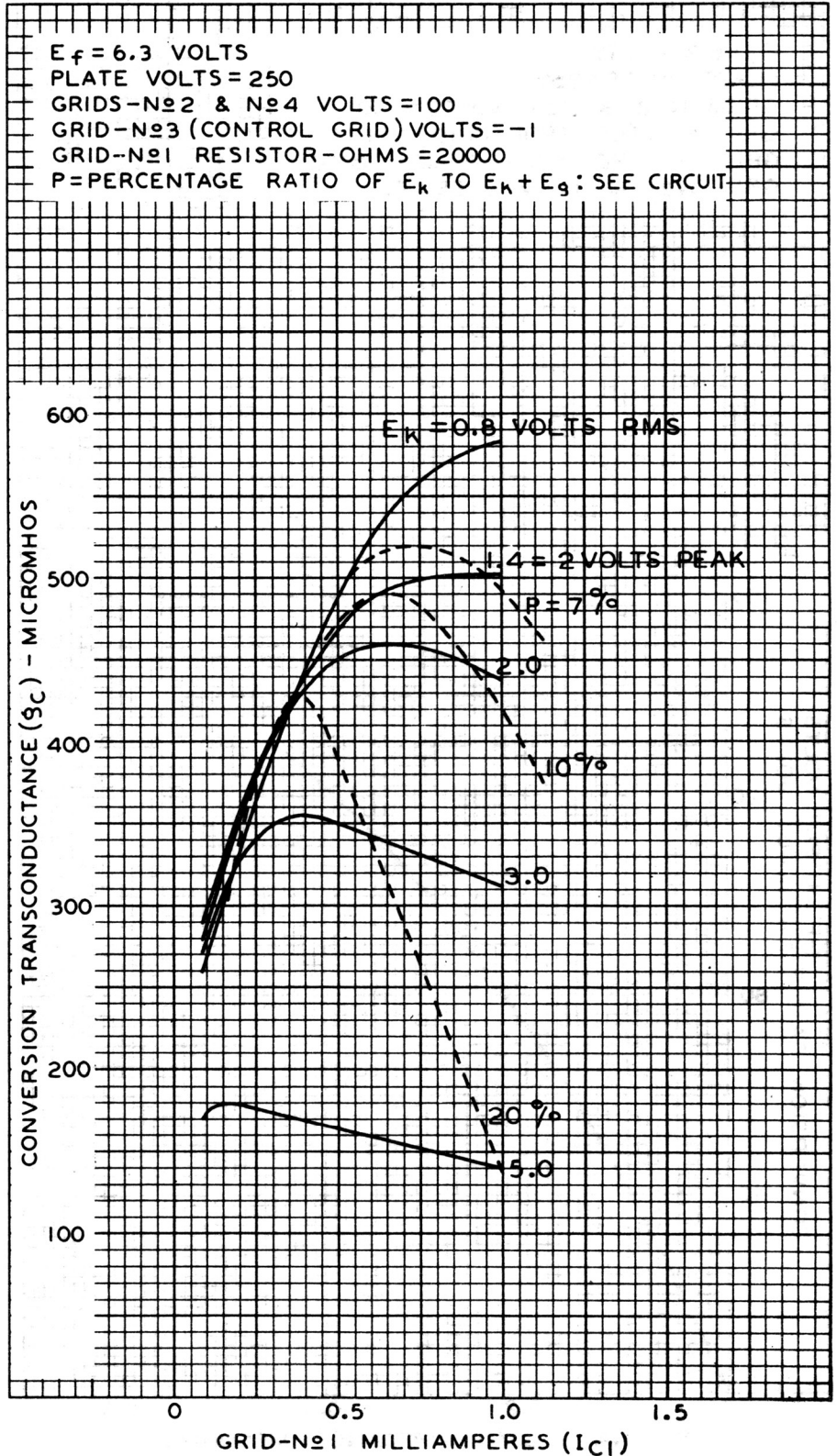
DATA



6SA7

VT-150
6SA7

OPERATION CHARACTERISTICS WITH SELF-EXCITATION



NOV. 2, 1938

RCA RADIOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.

92C-4993

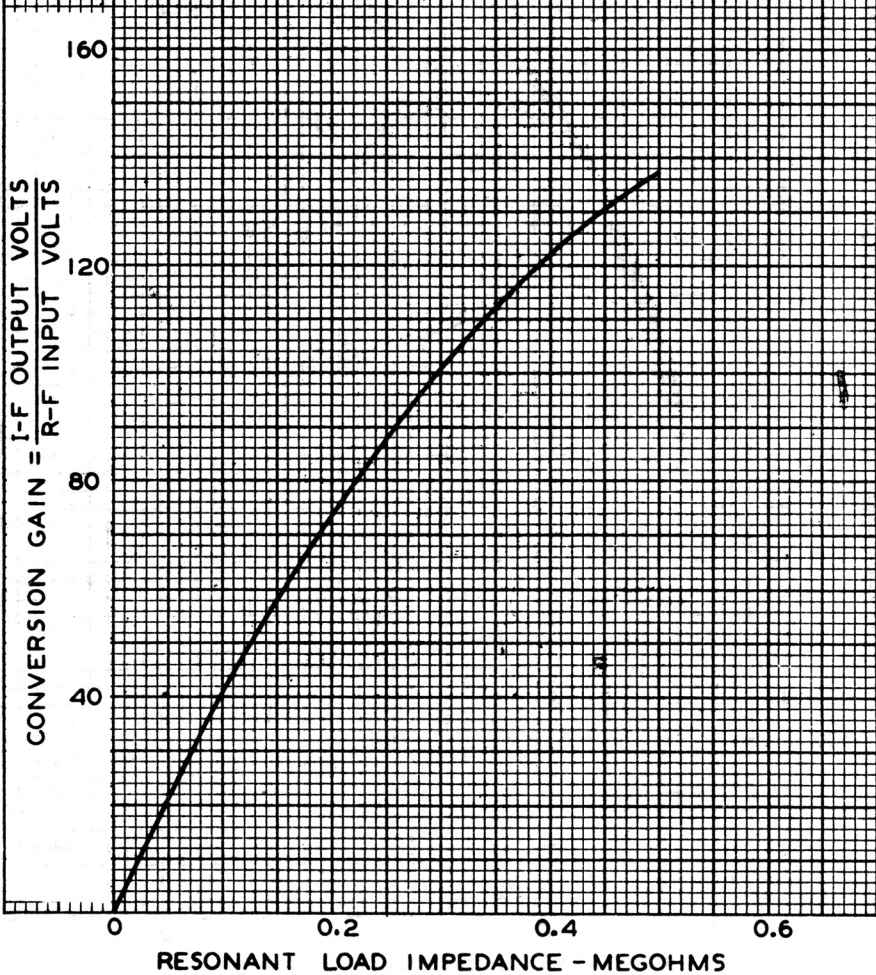
VT-150
6SA7



6SA7

OPERATION CHARACTERISTIC WITH SELF-EXCITATION

$E_f = 6.3$ VOLTS
PLATE VOLTS = 250
GRIDS No 2 & No 4 VOLTS = 100
GRID No 3 (CONTROL GRID) VOLTS = 0
GRID No 1 RESISTOR - OHMS = 20000
GRID No 1 MILLIAMPERES = 0.5



APR. 25, 1941

RCA RADOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.

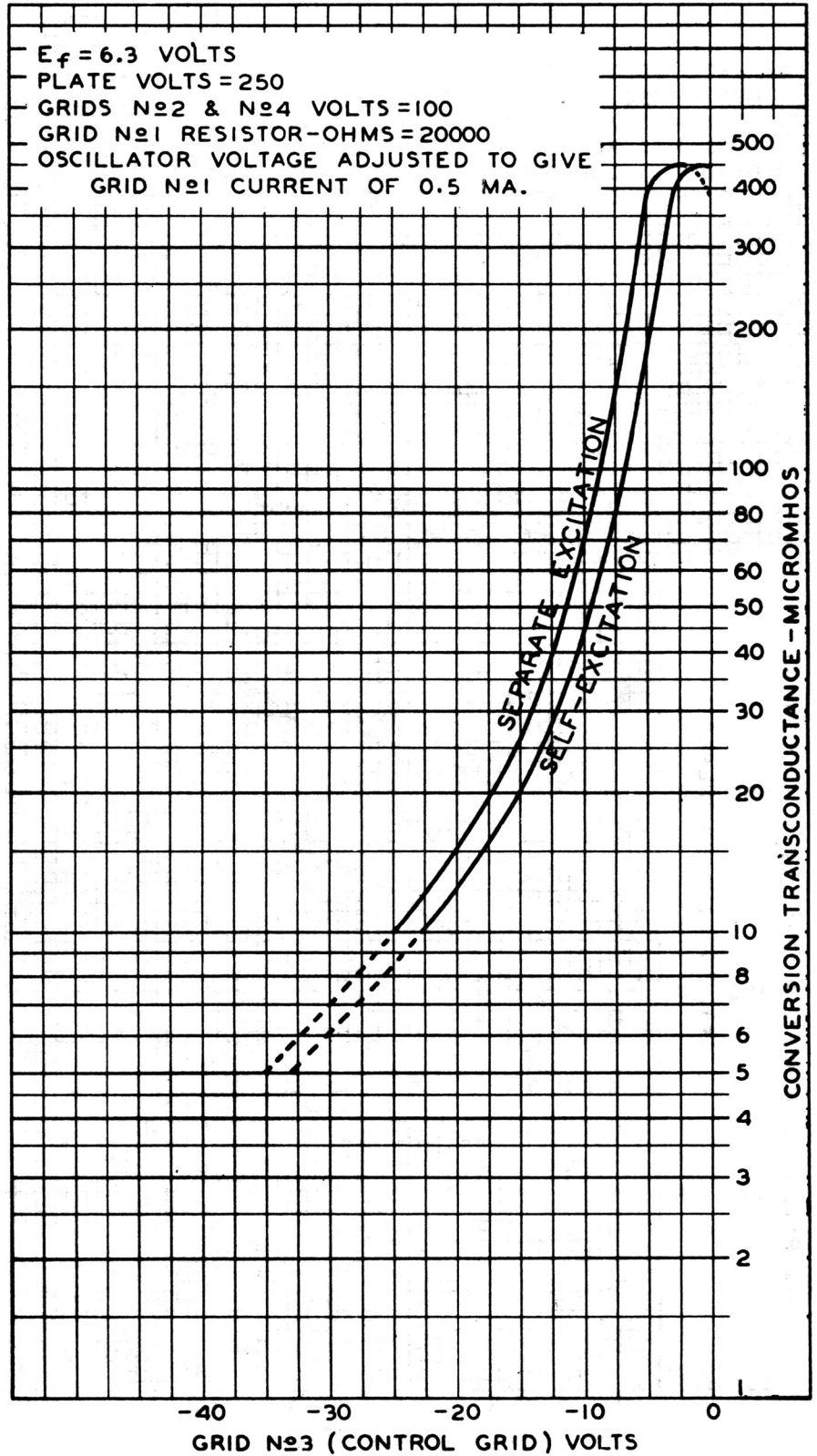
CE-4994



6SA7

VT-150
6SA7

OPERATION CHARACTERISTICS



OCT. 25, 1938

RCA RADIOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.

92C-4989

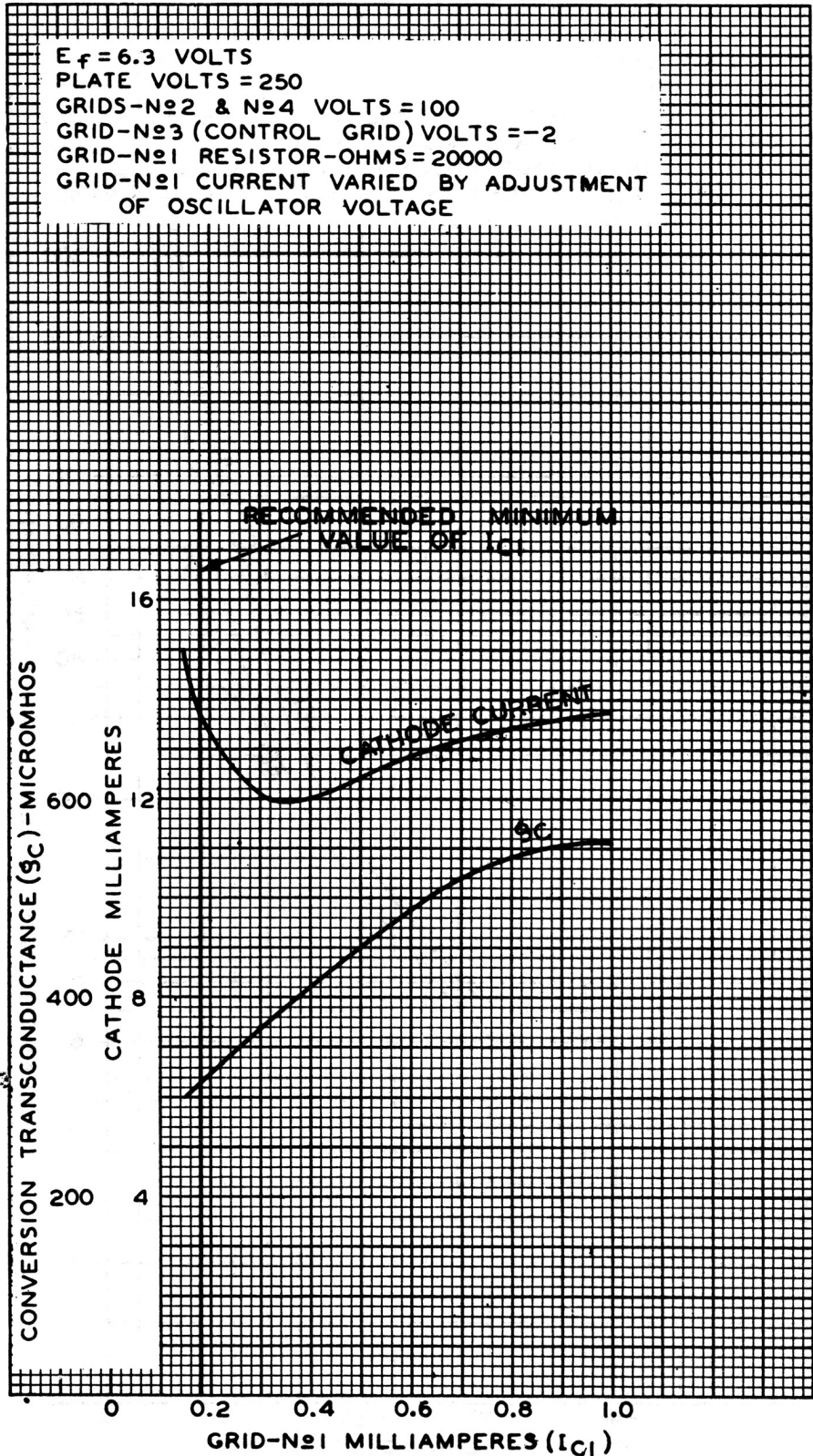
VT-150
6SA7



6SA7

OPERATION CHARACTERISTICS WITH SEPARATE OSCILLATOR EXCITATION

$E_f = 6.3$ VOLTS
PLATE VOLTS = 250
GRIDS-№2 & №4 VOLTS = 100
GRID-№3 (CONTROL GRID) VOLTS = -2
GRID-№1 RESISTOR-OHMS = 20000
GRID-№1 CURRENT VARIED BY ADJUSTMENT
OF OSCILLATOR VOLTAGE



APR. 24, 1941

RCA RADOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.

92C-4990R1



6SJ7, 6SJ7-GT SHARP-CUTOFF PENTODE

VT-116
6SJ7
6SJ7-GT

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage 6.3 ac or dc volts
Current 0.3 amp

Direct Interelectrode Capacitances:

Pentode Connection:	6SJ7 ⁰	6SJ7-GT ⁰⁰	
Grid No.1 to Plate	0.005 max.	0.005 max.	μμf ←
Input	6	7	μμf ←
Output	7	7	μμf ←
Triode Connection*:			
Grid No.1 to Plate	2.8	2.8	μμf
Grid No.1 to Cathode	3.4	3.4	μμf
Plate to Cathode	11	11	μμf

⁰ With shell connected to cathode.

⁰⁰ With external shield connected to cathode.

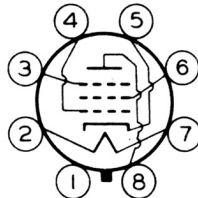
* With grid No.2 and grid No.3 connected to plate.

Mechanical:

Mounting Position	Any	Any
Maximum Overall Length	2-5/8"	3-5/16"
Maximum Seated Length	2-1/16"	2-3/4"
Maximum Diameter	1-5/16"	1-5/16"
Bulb	Metal Shell, MT8G	T-9
Base	{ Small-Wafer Octal 8-Pin	Sm.-Wafer Octal 8-Pin, Sleeve GT-8N
Basing Designation	8N	GT-8N

BOTTOM VIEW

Pin 1 { 6SJ7, Shell
6SJ7-GT,
Base Sleeve
Pin 2 - Heater
Pin 3 - Grid No.3



Pin 4 - Grid No.1
Pin 5 - Cathode
Pin 6 - Grid No.2
Pin 7 - Heater
Pin 8 - Plate

AMPLIFIER - Class A₁ Pentode Connection

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
PLATE DISSIPATION	2.5 max.	watts
GRID-No.2 DISSIPATION	0.7 max.	watt ←
GRID-No.1 (CONTROL-GRID) VOLTAGE:		
Positive bias value	0 max.	volts
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode	90 max.	volts ←
Heater positive with respect to cathode	90 max.	volts

← Indicates a change.

JUNE 15, 1948

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

TUBE DEPARTMENT

DATA

VT-116
6SJ7
6SJ7-GT



6SJ7, 6SJ7-GT SHARP-CUTOFF PENTODE

Typical Operation and Characteristics:

Plate voltage.	100	250	. .	volts
Grid No.3 (Suppressor)	Connected to cathode at socket			
Grid-No.2 Voltage.	100	100	. .	volts
Grid-No.1 Voltage.	-3	-3	. .	volts
Plate Resistance (Approx.)	0.7	#	. .	megohm
Transconductance	1575	1650	. .	μ mhos
Grid-No.1 Bias (Approx.) for plate current of 10 μ amp	-8	-8	. .	volts
Plate Current.	2.9	3.0	. .	ma
Grid-No.2 Current.	0.9	0.8	. .	ma

Maximum Circuit Values:

Grid-No.1-Circuit Resistance 1 max. megohm

AMPLIFIER - Class A₁

Triode Connection - Grids No.2 and No.3 Connected to Plate

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE.	250 max.	volts
PLATE DISSIPATION (Total).	2.5 max.	watts
GRID-No.1 VOLTAGE:		
Positive bias value.	0 max.	volts
→ PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode.	90 max.	volts
Heater positive with respect to cathode.	90 max.	volts

Typical Operation and Characteristics:

Plate Voltage.	180	250	. .	volts
Grid-No.1 Voltage.	-6	-8.5	. .	volts
Amplification Factor	19	19		
Plate Resistance (Approx.)	8250	7600	. .	ohms
Transconductance	2300	2500	. .	μ mhos
Plate Current.	6.0	9.2	. .	ma

Maximum Circuit Values:

Grid-No.1-Circuit Resistance 1 max. megohm

Greater than 1 megohm.

*For additional data, see RESISTANCE-COUPLED AMPLIFIER CHART
at the front of this Section*

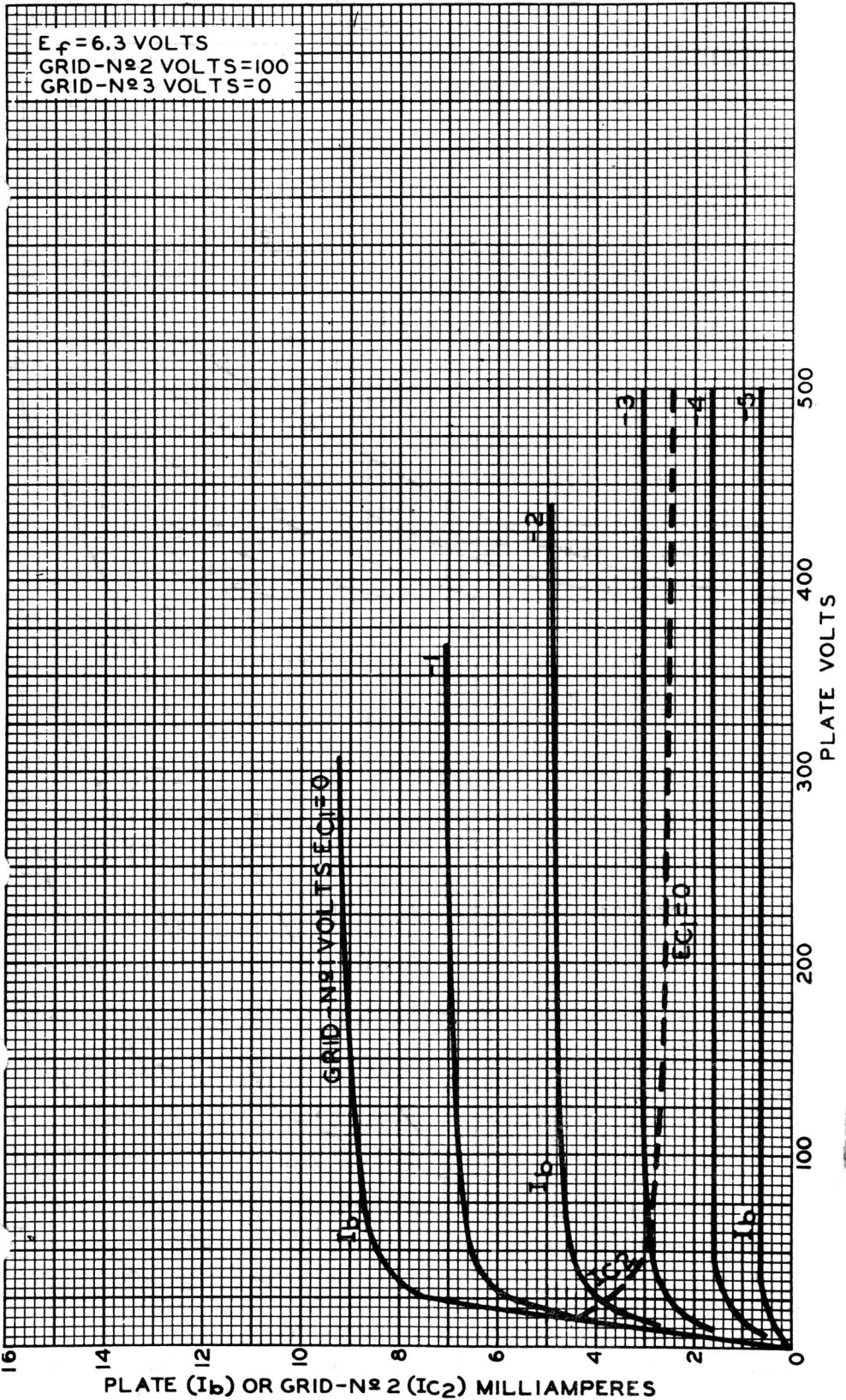
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6SJ7

6SJ7

AVERAGE PLATE CHARACTERISTICS PENTODE CONNECTION



OCT. 16, 1947

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

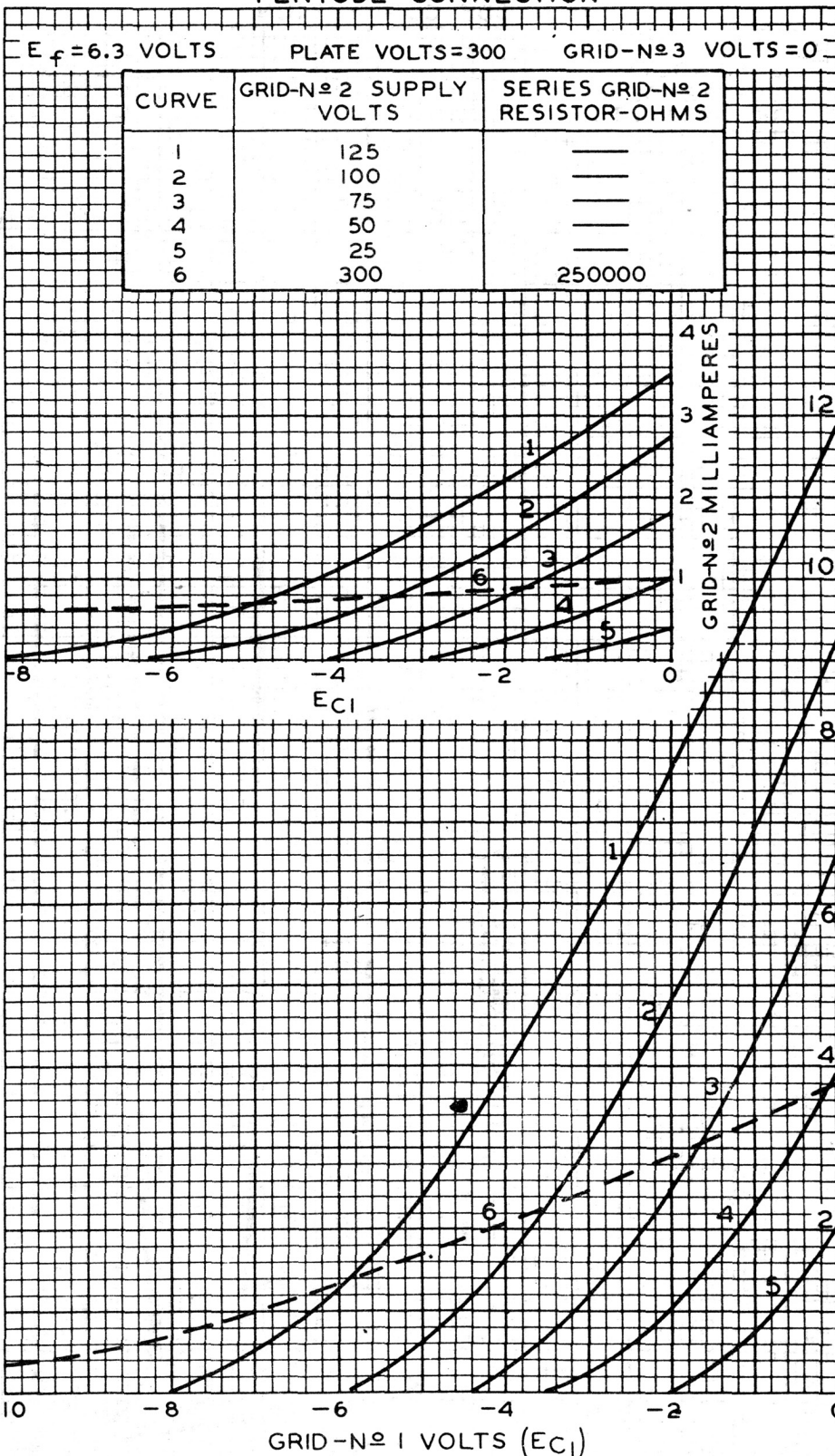
92CM-4939RI

VT-116
6SJ7



6SJ7

AVERAGE CHARACTERISTICS
PENTODE CONNECTION



MARCH 5, 1948

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

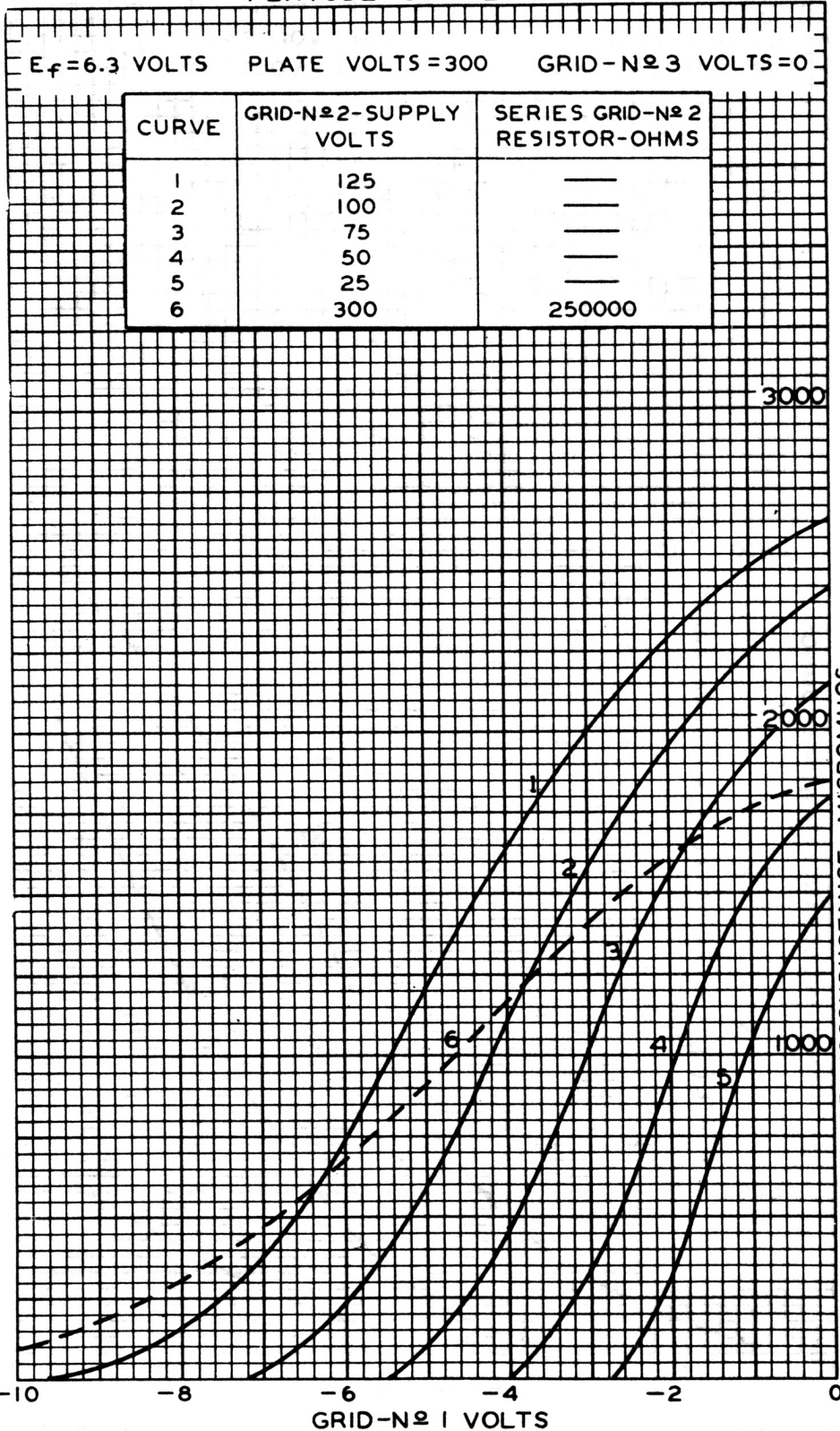
92CM-6443R1



6SJ7

AVERAGE CHARACTERISTICS PENTODE CONNECTION

VT-116
6SJ7



MARCH 5, 1948

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

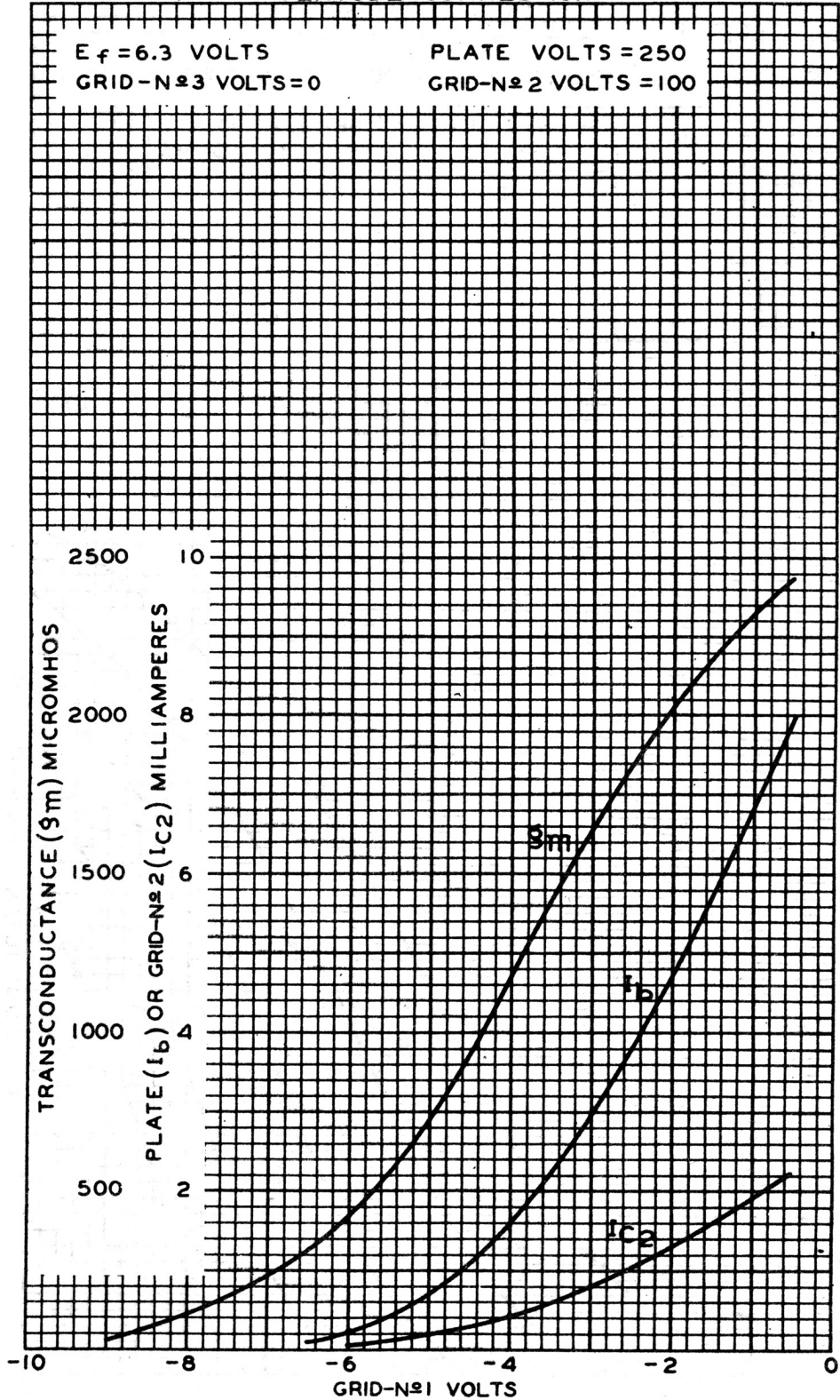
92CM-6444RI

VT-116
6SJ7



6SJ7

AVERAGE CHARACTERISTICS PENTODE CONNECTION



MARCH 5, 1948

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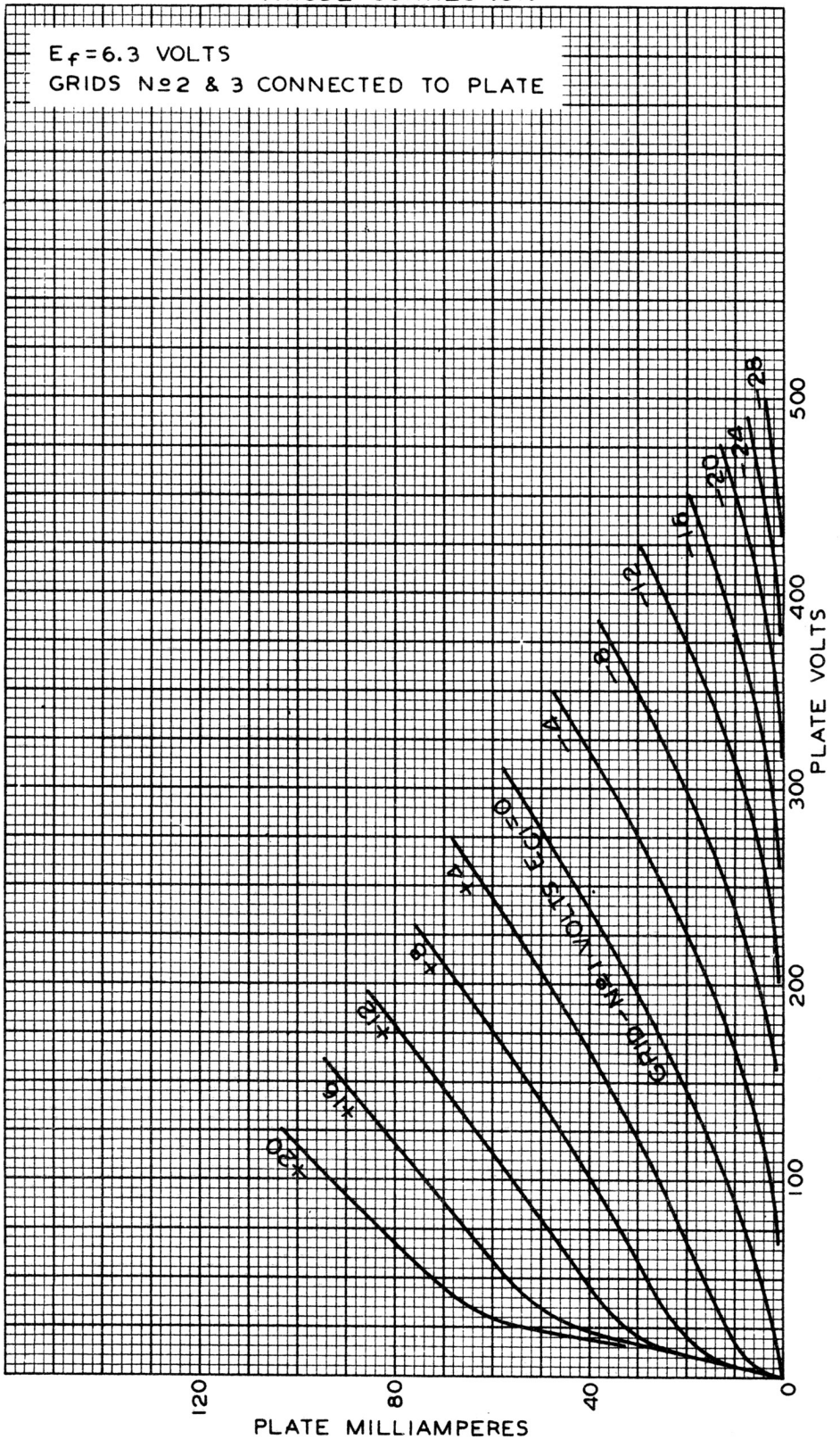
92CM-4937R1



VT-116
6SJ7

6SJ7

AVERAGE PLATE CHARACTERISTICS TRIODE CONNECTION



MAY 12, 1948

PLATE MILLIAMPERES
TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-6409R1



6SK7, 6SK7-GT/G

VT-117
6SK7
6SK7-GT/G

TRIPLE-GRID SUPER-CONTROL AMPLIFIER

Heater [■]		Coated Unipotential Cathode	
Voltage	6.3	a-c or d-c volts	
Current	0.3	amp.	
	6SK7	6SK7-GT/G	
Direct Interelectrode Cap.	▲	▲▲	
Grid to Plate	0.003 max.	0.005 max.	μf
Input	6.0	6.5	μf
Output	7.0	7.5	μf
Maximum Overall Length	2-5/8"	3-5/16"	
Maximum Seated Height	2-1/16"	2-3/4"	
Maximum Diameter	1-5/16"	1-5/16"	
Bulb	Metal Shell, MT-8	T-9	
Base	{ Small Wafer Octal 8-Pin	{ Small Wafer Octal 8-Pin, Sleeve	
Basing Designation	8N	GT-8N	
Pin 1 { 6SK7, Shell 6SK7-GT/G, Base Sleeve		Pin 4 - Grid	
Pin 2 - Heater		Pin 5 - Cathode	
Pin 3 - Suppressor		Pin 6 - Screen	
Mounting Position		Pin 7 - Heater	
		Pin 8 - Plate	

BOTTOM VIEW

Maximum And Minimum Ratings Are Design-Center Values

<u>AMPLIFIER</u>			
Plate Voltage		300 max.	volts
Screen Voltage		125 max.	volts
Screen Supply Voltage		300 max.	volts
Grid Voltage		0 min.	volts
Plate Dissipation		4.0 max.	watts
Screen Dissipation		0.4 max.	watt
<i>Typical Operation and Characteristics - Class A₁ Amplifier:</i>			
Plate	100	250	volts
Screen	100	100	volts
Grid	-1	-3	volts
Suppressor	Connected to cathode at socket		
Plate Res.	0.12	0.8	approx. megohm
Transcond.	2350	2000	μmhos
Grid Bias for			
transcond. of 10 μmhos	-35	-35	volts
Plate Cur.	13	9.2	ma.
Screen Cur.	4.0	2.6	ma.

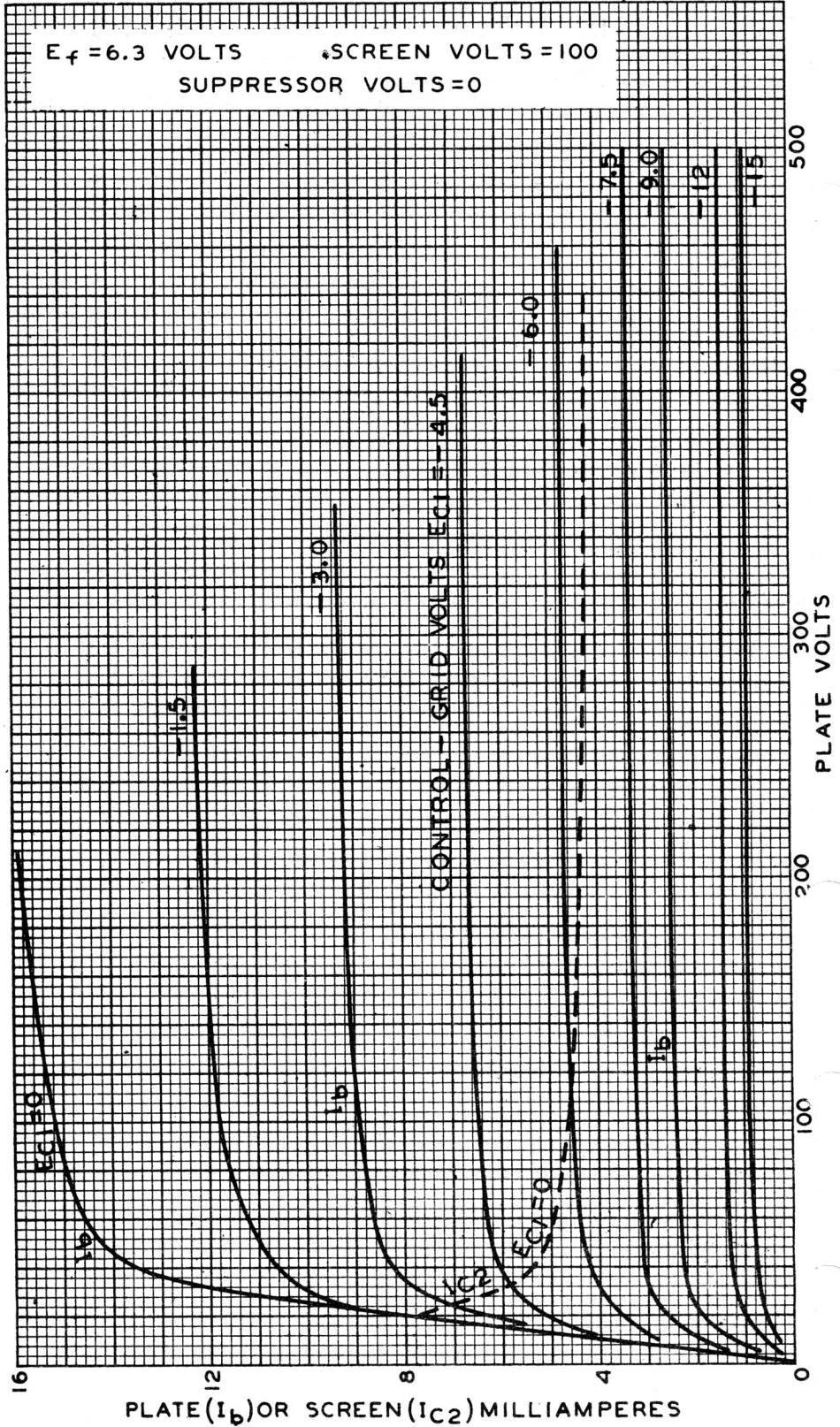
[■] In circuits where the cathode is not connected directly to the heater, the potential difference between heater and cathode should be kept as low as possible.
[▲] with shell connected to cathode.
^{▲▲} with shield connected to cathode.

VT-117
6SK7



6SK7

AVERAGE PLATE CHARACTERISTICS



JUNE 24, 1938

RCA RADITRON DIVISION
RCA MANUFACTURING COMPANY, INC.

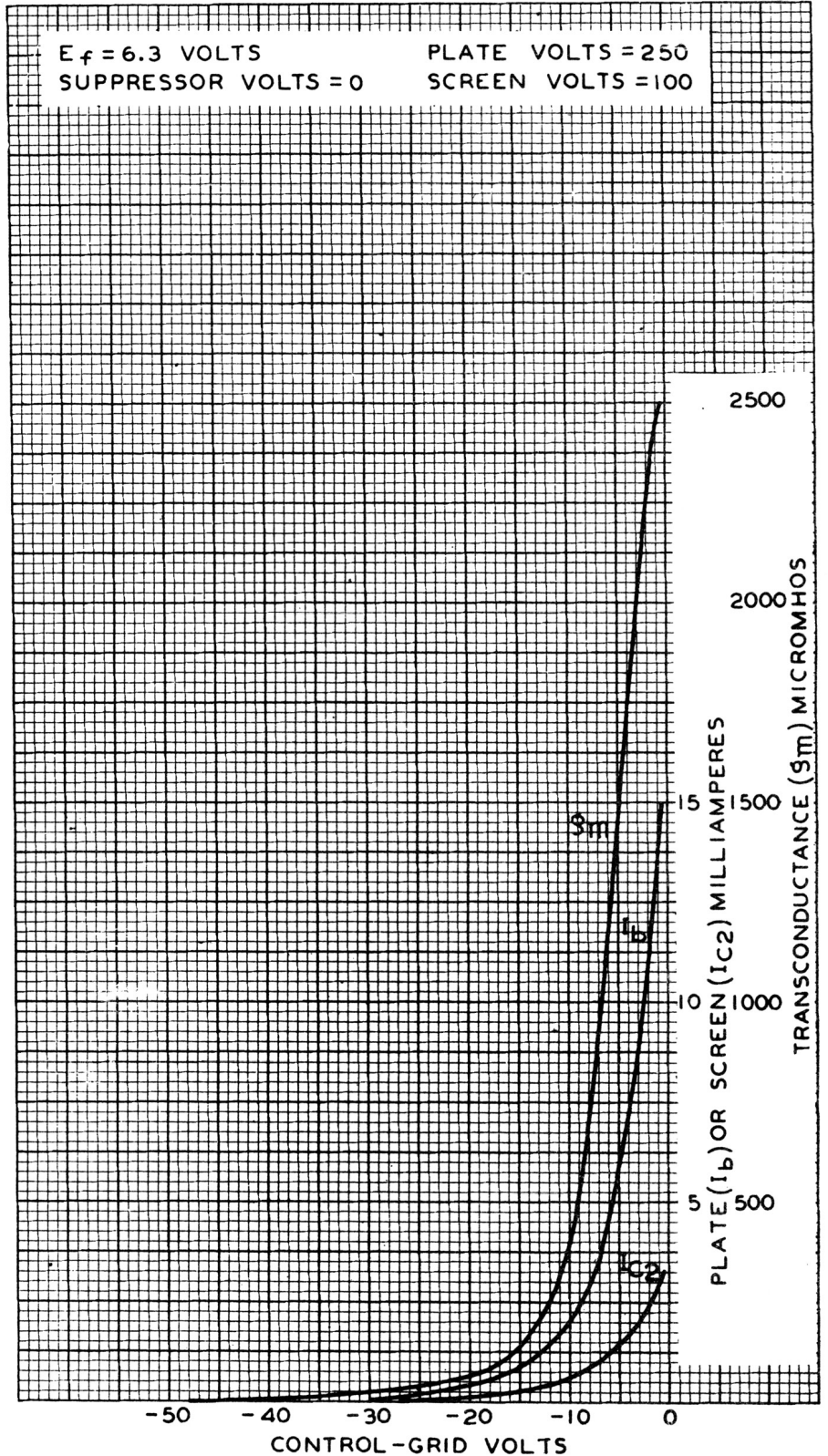
92C-4940



6SK7

VT-117
6SK7

AVERAGE CHARACTERISTICS





6SR7

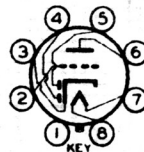
VT-233
6SR7



DUPLEX-DIODE TRIODE

SINGLE-ENDED METAL TYPE

Heater [■]	Coated Unipotential Cathode	
Voltage	6.3	a-c or d-c volts
Current	0.3	amp.
Direct Interelectrode Capacitances-Triode Unit: [○]		
Grid to Plate	2.4	μf
Grid to Cathode	3.6	μf
Plate to Cathode	2.8	μf
Maximum Overall Length		2-5/8"
Maximum Seated Height		2-1/16"
Maximum Diameter		1-5/16"
Bulb		Metal Shell, MT-8
Base		Small Wafer Octal 8-Pin
Pin 1 - Shell		Pin 5 - Diode Plate #1
Pin 2 - Triode Grid		Pin 6 - Triode Plate
Pin 3 - Cathode		Pin 7 - Heater
Pin 4 - Diode Plate #2		Pin 8 - Heater
Mounting Position		Any



BOTTOM VIEW (8Q)

TRIODE UNIT - Class A₁ Amplifier

Plate Voltage	250 max.	volts
Plate Dissipation	2.5 max.	watts
<i>Typical Operation with Transformer Coupling:</i>		
Plate	250	volts
Grid	-9	volts
Amp. Fact.	16	
Plate Res.	8500	ohms
Transconductance	1900	μmhos
Plate Cur.	9.5	ma.
Load Res.	10000	ohms
Power Output	300	mw

Typical Operation with Resistance Coupling:

See RESISTANCE-COUPLED AMPLIFIER CHART, Type 6R7.

DIODE UNITS - Two

For consideration of these units, see Type 85. Circuits will be similar to those shown for Type 55 with fixed bias. Diode biasing of the triode unit of the 6SR7 is not suitable. Diode curves under Type 6B7 apply to the 6SR7.

- In circuits where the cathode is not connected directly to the heater, the potential difference between heater and cathode should be kept as low as possible.
- with shell connected to cathode. values are approximate.

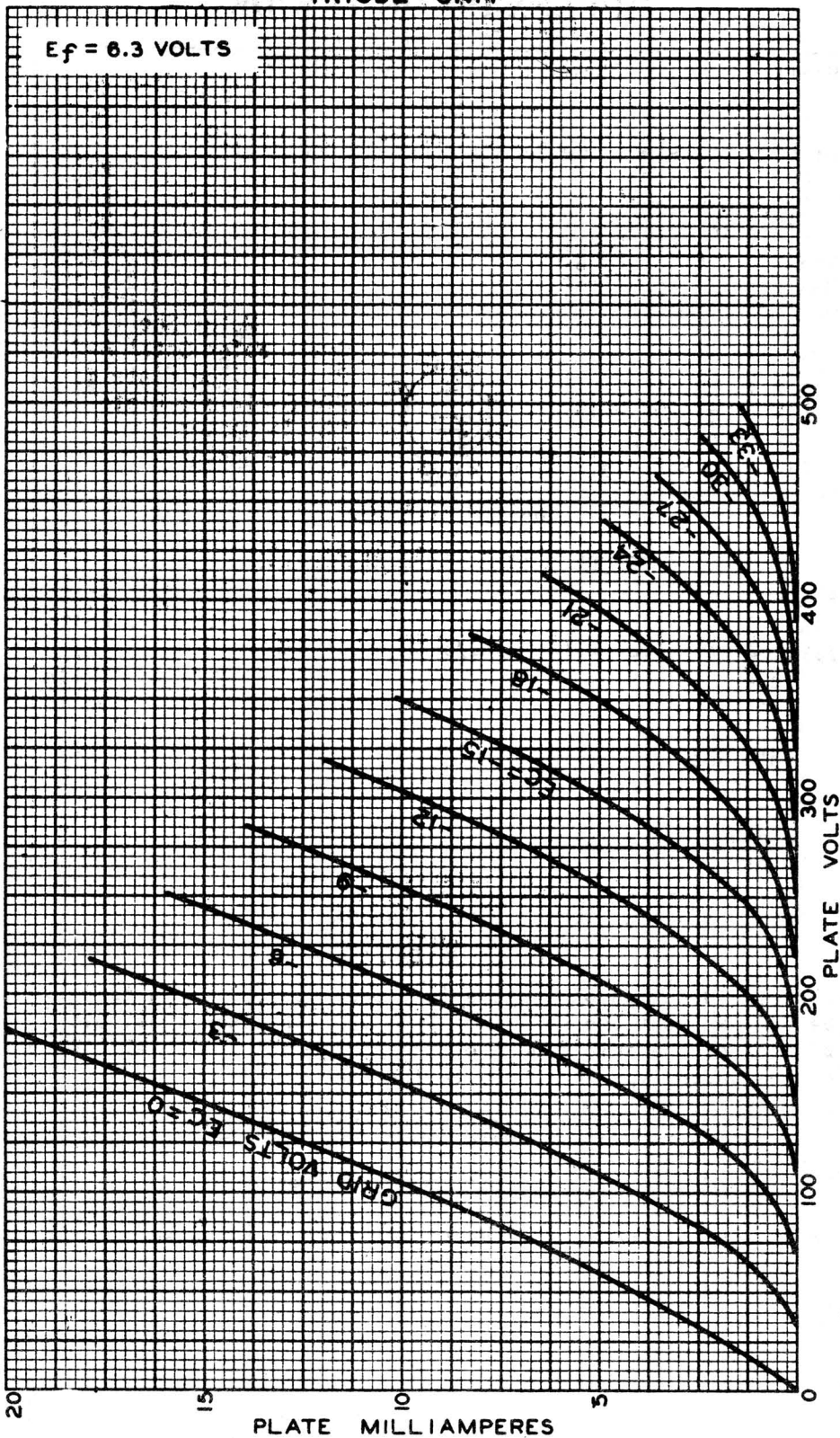
An additional curve applying to the 6SR7 is shown under Type 6R7.

6SR7



6SR7

AVERAGE PLATE CHARACTERISTICS TRIODE UNIT



JAN. 14, 1936

RCA RADIOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.


92C-6141



41

POWER PENTODE

VT-48
41

Heater [■]	Coated Unipotential Cathode	
Voltage	6.3	a-c or d-c volts
Current	0.4	amp.
Direct Interelectrode Capacitances (Approx.): [○]		
Grid to Plate	0.6	μf ←
Input	6.0	μf
Output	7.5	μf
Maximum Overall Length		4-3/16"
Maximum Seated Height		3-9/16"
Maximum Diameter		1-9/16"
Bulb		ST-12
Base		Small-Shell Small 6-Pin
Pin 1 - Heater		Pin 4 - Grid
Pin 2 - Plate		Pin 5 - Cathode
Pin 3 - Screen		Pin 6 - Heater
Mounting Position		Any

BOTTOM VIEW (6B)

Maximum Ratings Are Design-Center Values

SINGLE-TUBE AMPLIFIER

Plate Voltage	315 max.	volts
Screen Voltage	285 max.	volts
Plate Dissipation	8.5 max.	watts
Screen Dissipation	2.8 max.	watts

Typical Operation and Characteristics - Class A₁ Amplifier:

Plate	100	250	315	volts
Screen	100	250	250	volts
Grid*	-7	-18	-21	volts
Peak A-F Grid Voltage	7	18	21	volts
Zero-Sig. Plate Cur.	9	32	25.5	ma.
Max.-Sig. Plate Cur.	9.5	33	28	ma.
Zero-Sig. Screen Cur.	1.6	5.5	4.0	ma.
Max.-Sig. Screen Cur.	3	10	9	ma.
Plate Resistance	104000	68000	75000	approx. ohms
Transconductance	1500	2300	2100	μmhos
Load Resistance	12000	7600	9000	ohms
Total Harmonic Dist.	11	11	15	%
Max.-Sig. Power Output	0.35	3.4	4.5	watts

PUSH-PULL AMPLIFIER

Plate Voltage	315 max.	volts
Screen Voltage	285 max.	volts
Plate Dissipation	8.5 max.	watts
Screen Dissipation	2.8 max.	watts

Typical Operation - Class A₁ Amplifier:

Unless otherwise specified, values are for 2 tubes

	<u>Fixed Bias</u>	<u>Cathode Bias</u>	
Plate Voltage	285	285	volts
Screen Voltage	285	285	volts

■ In circuits where the cathode is not directly connected to the heater, the potential difference between heater and cathode should be kept as low as possible.

○ With no external shield.

* See next page.

← Indicates a change.

OCTOBER 1, 1951

TUBE DEPARTMENT

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

DATA

VT-48
41



41

POWER PENTODE

	<i>Fixed Bias</i>	<i>Cathode Bias</i>	
Grid*	-25.5	-	volts
Cathode Resistor	-	400	ohms
Peak A-F Grid to Grid Volt.	51	51	volts
Zero-Sig. Plate Cur.	55	55	ma.
Max.-Sig. Plate Cur.	72	61	ma.
Zero-Sig. Screen Cur.	9	9	ma.
Max.-Sig. Screen Cur.	17	13	ma.
Effective Load Resistance (plate to plate)	12000	12000	ohms
Total Harmonic Dist.	6	4	%
Max.-Sig. Power Output	10.5	9.8	watts

* The type of input coupling should not introduce too much resistance in the grid circuit. Transformer- or impedance-coupling devices are recommended. When the grid circuit has a resistance not higher than 0.1 megohm, fixed bias may be used; for higher values, cathode bias is required. With cathode bias, the grid circuit may have a resistance not to exceed 0.5 megohm.

Curves for Type 41 are the same as those shown for Type 6K6-GT.



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