

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 #5 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 #5 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	{ Intermed. Sh.
		{ Octal 8-Pin	{ 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

BOTTOM VIEW (BR)

BOTTOM VIEW (G-8AD)

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.

Jan. 1, 1943

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

DATA

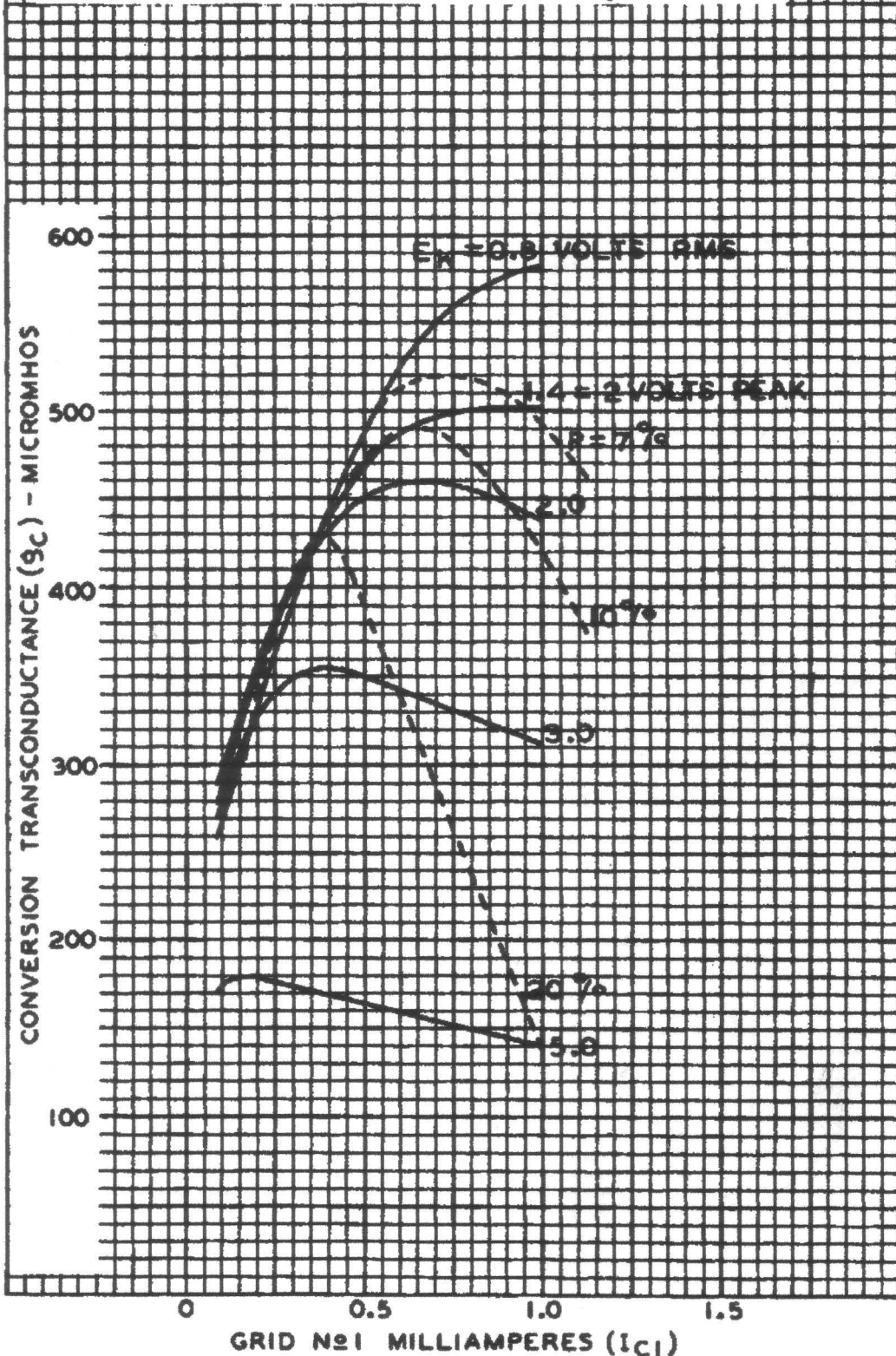


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OPERATION CHARACTERISTICS WITH SELF-EXCITATION

$E_f = 6.3$ VOLTS
 PLATE VOLTS = 250
 GRIDS No 2 & No 4 VOLTS = 100
 GRID No 3 (CONTROL GRID) VOLTS = -1
 GRID No 1 RESISTOR - OHMS = 20000
 P = PERCENTAGE RATIO OF E_k TO $E_k + E_g$: SEE CIRCUIT

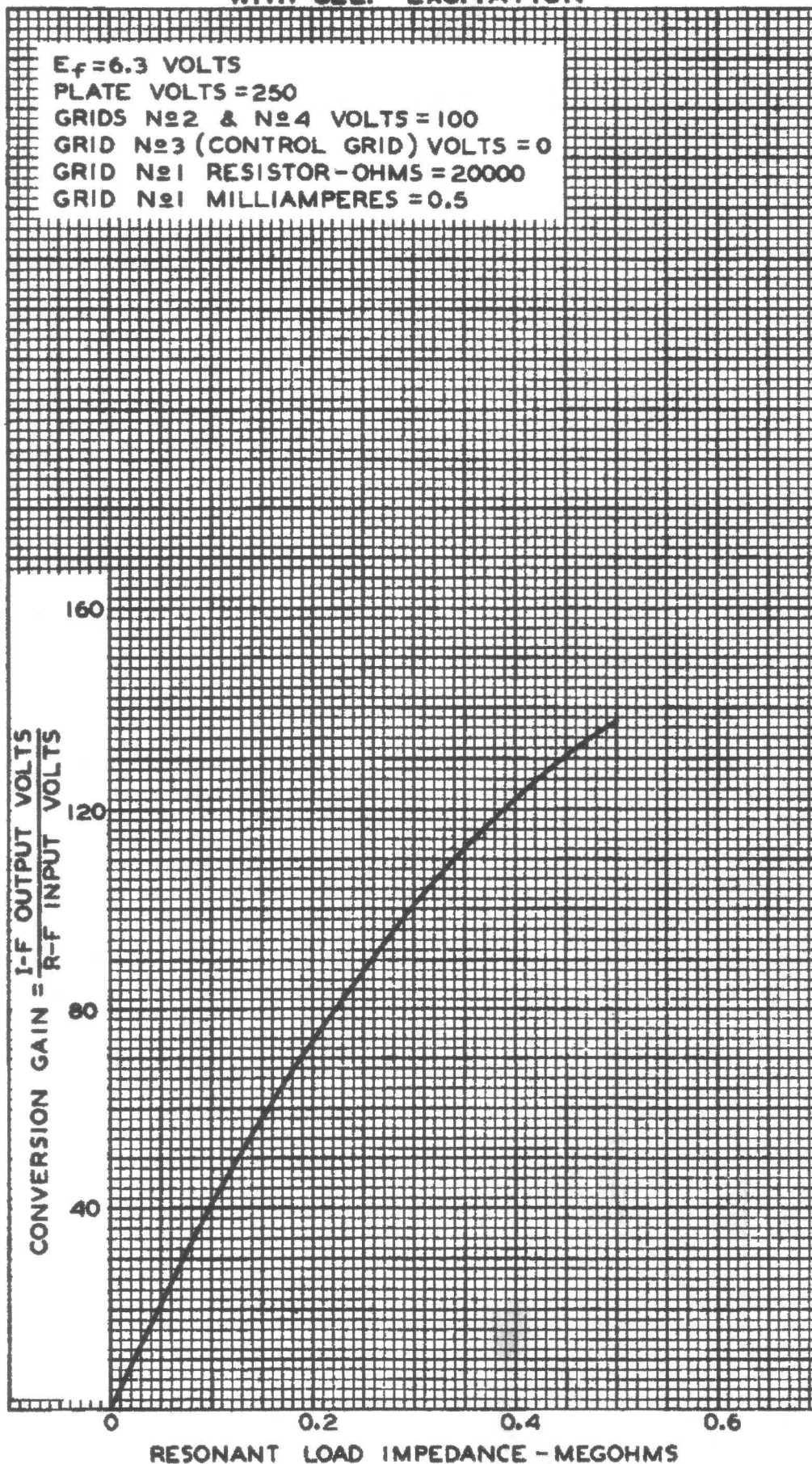


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OPERATION CHARACTERISTIC WITH SELF-EXCITATION



APR. 25, 1941

RCA RADIOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.

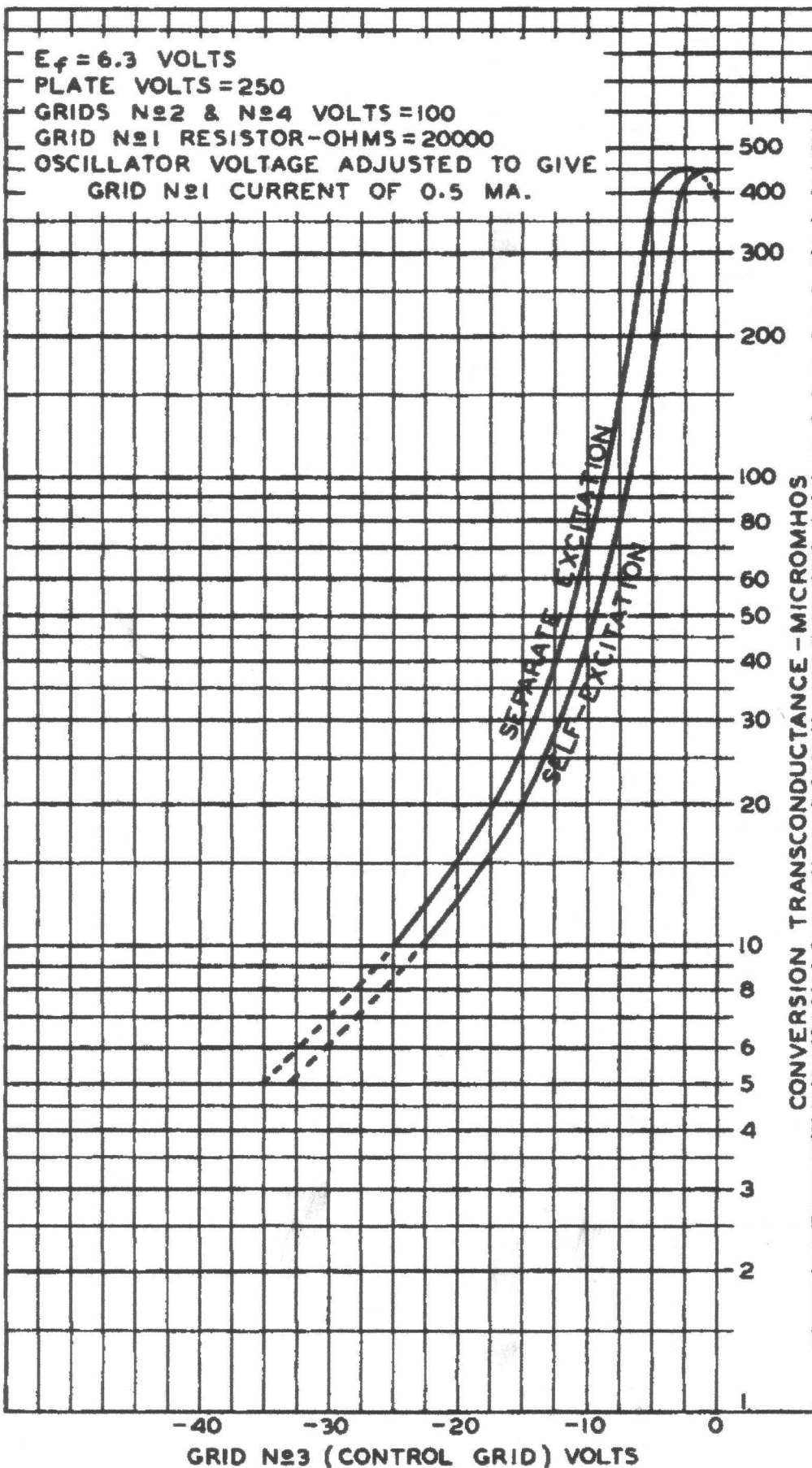
CE-4994



6SA7

6SA7

OPERATION CHARACTERISTICS



6SA7



6SA7

OPERATION CHARACTERISTICS WITH SEPARATE OSCILLATOR EXCITATION

