Refer to chart at end of section.	8CB11
For replacement use type 8FQ7/8CG7.	8CG7
Refer to type 6CM7.	8CM7
Refer to chart at end of section.	8CN7
Refer to type 6CS7.	8CS7
Refer to type 6CW5/EL86.	8CW5/XL86
Refer to type 6CW5.	8CW5
Refer to type 6CX8.	8CX8
Refer to chart at end of section. For replacement use type 8GN8/8EB8.	8EB8
Refer to type 6EM5.	8EM5
Refer to chart at end of section.	8ET7
Refer to chart at end of section.	8FQ7
Refer to type 6FQ7/6CG7.	8FQ7/8CG7
Refer to chart at end of section.	8GJ7
Refer to type 6GJ7/ECF801.	8GJ7/PCF801
Refer to type 6GN8.	8GN8 8GN8/8EB8
Refer to type 6GU7.	8GU7
Refer to type 6JU8A.	8JU8A
Refer to type 6JV8.	8J <b>V</b> 8
Refer to type 6KA8.	8KA8
Refer to type 6LC8.	8LC8
Refer to type 6LT8.	8LT8
Refer to chart at end of section.	9A8



## MEDIUM-MU TRIODE— SHARP-CUTOFF PENTODE

**9A8/ PCF80** 

Miniature type used as combined oscillator and mixer tubes in vhf color and black-and-white television receivers. Outlines section, 6B; requires miniature 9-contact socket. Heater: volts (ac/dc), 9; amperes, 0.3; maximum heater-cathode volts, +100, -200 peak; -120 average.

Class	A۱	Amp	lifier
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MAXIMUM RATINGS (Design-Center Values) Plate Supply Voltage Plate Voltage Grid-No.2 (Screen-Grid) Voltage Cathode Current Plate Dissipation Grid-No.2 Input	Triode Unit 550 250 14 1.5	Pentode Unit 550 250 175 14 1.7 0.5	volts volts volts mA watts watt
Grid-No.2 Input	_	0.0	

CHARACTERISTICS Plate Voltage Grid-No.2 Voltage Grid-No.1 Voltage Amplification Factor Plate Resistance (Approx.) Transconductance Plate Current Grid-No 2 Current	$   \begin{array}{r}     100 \\     -2 \\     20 \\     -5000 \\     14 \\    \end{array} $	170 170 2 47* 0.4 6200 10 2.8	volts volts volts megohm µmhos mA
MAXIMUM CIRCUIT VALUES Grid-No.1-Circuit Resistance: For fixed-bias operation For cathode-bias operation  * Grid No.2 to Grid No.1.	0.5	0.5	megohm
	0.5	1	megohm

9AH9	Refer to chart at end of section.
9AK10	Refer to chart at end of section.
9AM10	Refer to chart at end of section.
9AQ8/PCC85	Refer to chart at end of section.
9AU7	Refer to type 12AU7A.
9BJ11	Refer to chart at end of section.
9BR7	Refer to chart at end of section.
9CL8	Refer to chart at end of section.
9EA8	Refer to chart at end of section.
9GH8A	Refer to type 6GH8A.
9GV8	Refer to chart at end of section.
9GV8/XCL85	Refer to type 6GV8/ECL85.
9JW8/PCF802	Refer to type 6JW8/ECF802.
9KC6	Refer to chart at end of section.

## 9KX6 SHARP-CUTOFF PENTODE

Miniature type with frame grid used as video output amplifier in color and black-and-white television receivers. Outlines section, 6E; requires miniature 9-contact socket. Heater: volts, 8.7; amperes, 0.45; warm-up time, 11 seconds; maximum heater-cathode volts,  $\pm 200$  peak, 100 average.



## Class A. Amplifier MAXIMUM RATINGS (Design-Maximum Values)

· ·		
Plate Voltage	400	volts
Grid-No.3 (Suppressor-Grid) Voltage, Positive value	100	volts
did rioto (Suppressor-ditt) voltage, I ostitve value	U	voits
Grid-No.2 (Screen-Grid) Supply Voltage	330	volts
Grid-No.2 Voltage	See curve	
The state of the s	see curve	
Grid-No.1 (Control-Grid) Voltage, Positive value	0	volts
Plate Dissipation	4.1 ř	
Tate Dissipation	6.11	watts
Grid-No.2 Input	1.5	watts
•	1.0	******
CHAPACTERISTICS		

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Plate Voltage	250	50	volt
Grid-No.3 Voltage	Connec	ted to cathode	
Grid-No.2 Supply Voltage	150	125	volt
Grid-No 1 Voltage	•		

Cathode-Bias Resistor, Bypassed         56           Plate Resistance (Approx.)         50000           Transconductance (Grid No.1 to Plate)         36000           Plate Current         22           Grid-No.2 Current         6.5           Grid-No.1 Voltage (Approx.) for plate current of 100 "A         -5.7	70	ohms ohms µmhos mA mA	
of 100 µA —5.7  MAXIMUM CIRCUIT VALUES			
Grid-No.1-Circuit Resistance: For fixed-bias operation For cathode-bias operation	0.1 0.25	megohm megohm	
Refer to type 6KZ8.	9K7	Z8	
Refer to chart at end of section.	9LA	۸6	
Refer to type 6MN8.	9M1	9MN8	
For replacement use type 10DE7.	9RA	.L1	
Refer to type 6U8A.	908	3A	
Refer to chart at end of section.	10	)	
Refer to type 6AL11.	10A	L11	
Refer to type 6BQ5.	10B	Q5	
Refer to chart at end of section.	100	C8	
Refer to chart at end of section.	10C	W5	
Refer to type 6CW5/EL86.	10CW5	10CW5/LL86	
Refer to type 6DE7.	100	E7	
Refer to type 6DR7.	100	R7	
Refer to chart at end of section.	100	8X	
Refer to type 6DX8/ECL84.	10DX8	/LCL84	
Refer to chart at end of section.	10E	G7	
Refer to type 6EM7.	10E	M7	
Refer to type 6EW7.	10E	W7	
Refer to chart at end of section.	100	GF7	
Refer to type 6GF7A.	10G	F7A	
Refer to type 6GK6.	100	SK6	
Refer to type 6GN8.	100	8N8	
Refer to type 6GV8/ECL85.	10GV8	/LCL85	
Refer to type 6HF8.	101	HF8	
Refer to chart at end of section.	10J	A5	
Refer to type 10JA8/10LZ8	10J	8A	