



RCA MANUFACTURING COMPANY, INC.

A RADIO CORPORATION OF AMERICA SUBSIDIARY

Harrison, New Jersey

**RCA RADIOTRON
D I V I S I O N**

APPLICATION NOTE No.99

October 19, 1938

REVISION OF 6K8 RATINGS

The following data include new recommended maximum values of triode-plate voltage and triode-plate dissipation for the 6K8. Other ratings and typical operating conditions are unchanged.

Hexode Plate Voltage	250 max.	volts
Hexode Screen (Grids #2 and #4) Voltage	100 max.	volts
Hexode Control-Grid (Grid #3) Voltage	-3 min.	volts
Triode Plate Voltage	125 max.	volts
Triode Plate Dissipation	0.75 max.	watt
Total Cathode Current	16 max.	ma.

Typical Operation

Heater Voltage	6.3	6.3	volts
Hexode Plate Voltage	100	250	volts
Hexode Screen Voltage	100	100	volts
Hexode Control-Grid Voltage	-3	-3	volts
Triode Plate Voltage	100	100	volts
Triode Grid Resistor	50000	50000	ohms
Hexode Plate Resistance	0.4	0.6 approx.	megohm
Conversion Transconductance	325	350	μmhos
Hexode Control-Grid Bias for Conver. Transcond. = 2 μmhos	-30	-30 approx.	volts
Hexode Plate Current	2.3	2.5	ma.
Hexode Screen Current	6.2	6.0	ma.
Triode Plate Current	3.8	3.8	ma.
Triode Grid & Hexode Grid #1 Current	0.15	0.15	ma.

NOTE: Transconductance of the oscillator portion (not oscillating) of the 6K8 is approximately 3000 μmhos when the triode plate voltage is 100 volts and the triode grid voltage is 0 volts.

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