**SUPER-CONTROL R-F AMPLIFIER PENTODE**

**ACORN TYPE**

*Especially for wavelengths as short as 0.7 meter.*

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**Heater**

Coated Unipotential Cathode

**Voltage** 6.3 a-c or d-c volts

**Current** 0.15 amp.

**Direct Inter-electrode Capacitances:**

- Grid to Plate \* 0.007 max. \(\mu F\)
- Input 3.4 \(\mu F\)
- Output 3.0 \(\mu F\)

**Overall Length** 1-11/16" \(\pm\) 3/16"

**Overall Diameter** 1-3/32" \(\pm\) 1/16"

**Bulb** T-4½

**End Terminals**

- See Outline in GENERAL SECTION

**Base**

- Pin 1 - Heater
- Pin 2 - Grid No. 2
- Pin 3 - Grid No. 3
- Pin 4 - Heater
- RCA Socket
- RCA Grid & Plate Clips

**Mounting Position**

- Stock No. 9925
- Stock No. 9939

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**Maximum and Minimum Ratings Are Design-Center Values**

**AMPLIFIER**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>D-C Plate Voltage</td>
<td>250 max. volts</td>
</tr>
<tr>
<td>D-C Screen Voltage (Grid No. 2)</td>
<td>100 max. volts</td>
</tr>
<tr>
<td>Grid (No. 1) Voltage</td>
<td>-3 min. volts</td>
</tr>
<tr>
<td>Plate Dissipation</td>
<td>1.7 max. watts</td>
</tr>
<tr>
<td>Screen Dissipation</td>
<td>0.3 max. watt</td>
</tr>
<tr>
<td>D-C Heater-Cathode Potential</td>
<td>80 max. volts</td>
</tr>
</tbody>
</table>

**Characteristics — Class A, Amplifier:**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>D-C Plate Voltage</td>
<td>250 volts</td>
</tr>
<tr>
<td>Suppressor (Grid No. 3) Connected to cathode at socket</td>
<td></td>
</tr>
<tr>
<td>D-C Screen Voltage</td>
<td>100 volts</td>
</tr>
<tr>
<td>D-C Grid (No. 1) Voltage</td>
<td>-3 volts</td>
</tr>
<tr>
<td>Plate Resistance</td>
<td>0.7 approx. megohms</td>
</tr>
<tr>
<td>Transconductance</td>
<td>1800 (\mu \text{ohms})</td>
</tr>
<tr>
<td>Grid Bias for Transcond. of approx. 2 (\mu \text{hos})</td>
<td>-45 volts</td>
</tr>
<tr>
<td>D-C Plate Current</td>
<td>6.7 ma.</td>
</tr>
<tr>
<td>D-C Screen Current</td>
<td>2.7 ma.</td>
</tr>
</tbody>
</table>

**MIXER — In Superheterodyne Circuit**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>D-C Plate Voltage</td>
<td>250 max. volts</td>
</tr>
<tr>
<td>D-C Screen Voltage</td>
<td>100 max. volts</td>
</tr>
<tr>
<td>D-C Heater-Cathode Potential</td>
<td>80 max. volts</td>
</tr>
<tr>
<td>Typical Operation:</td>
<td></td>
</tr>
<tr>
<td>D-C Plate Voltage</td>
<td>100 (\pm) 250 volts</td>
</tr>
<tr>
<td>Suppressor</td>
<td>Connected to cathode at socket</td>
</tr>
<tr>
<td>D-C Screen Voltage</td>
<td>100 (\pm) 100 volts</td>
</tr>
<tr>
<td>D-C Grid Voltage</td>
<td>-10 (\pm) 10 approx. volts</td>
</tr>
</tbody>
</table>

The grid bias shown is minimum for an oscillator peak voltage of 9 volts. These values are optimum.

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*:* See next page.  

\(\rightarrow\) Indicates a change.

**JUNE 30, 1944**

RCA VICTOR DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY
SUPER-CONTROL R-F AMPLIFIER PENTODE

(continued from preceding page)

* With shield baffle.
* Under maximum rated conditions, the resistance in the grid circuit should not exceed 0.5 megOhm with fixed bias, or 1.0 megOhm with cathode bias.

Typical R-F Amplifier Circuit for the 956 is the same as that for Type 954.

AVERAGE PLATE CHARACTERISTICS

E_f = 6.3 VOLTS  SUPPRESSOR VOLTS = 0
SCREEN VOLTS = 100

PLATE MILLIAMPERES

JUNE 30, 1944

RCA VICTOR DIVISION

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY
AVERAGE CHARACTERISTICS

$E_f = 6.3$ VOLTS  SCREEN VOLTS = 100
PLATE VOLTS = 250  SUPPRESSOR VOLTS = 0

TRANSCONDUCTANCE ($g_{m1}$) MICROMOHMS

PLATE (1) OR SCREEN (1C2) MILLIAMPERES

CONTROL-GRID VOLTS

MAY 13, 1941
RCA RADIOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.
AVERAGE CHARACTERISTICS

$E_f = 6.3 \text{ VOLTS} \quad \text{CONTROL-GRID VOLTS} = -3$

$\text{PLATE VOLTS} = 250 \quad \text{SUPPRESSOR VOLTS} = 0$

TRANSCONDUCTANCE ($g_m$) [MICROMOHMS]

Plate $(1b)$ or Screen $(1C2)$ [MILLIAMPERES]

SCREEN VOLTS

MAY 13, 1941

RCA RADIOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.

92C-4673R1