PENTAGRID CONVERTER

Heater Coated Unipotential Cathode
Voltage 2.5 a-c or d-c volts
Current 0.8 amp.

For further data, see Type 6A7. The 6A7 and 2A7 are identical except for heater rating.

TYPICAL PENTAGRID CONVERTER CIRCUIT

C = GANGED TUNING CONDENSER
(40 TO 350 μμf)
C₁, C₂, C₅, C₆, C₇ = 0.1 μf
C₃ = 0.00025 μf
C₄ = SEE TABLE BELOW
R₁ = 250 000 OHMS, 0.1 WATT
R₂ = 10 000 - 50 000 OHMS, 0.1 WATT
R₃ = OSCILLATOR-ANODE (GRID No 2)
VOLTAGE-DROPPING RESISTOR
R₄ = 150 - 300 OHMS, 0.1 WATT
R₅ = SCREEN (GRIDS No 3 & 5) FILTER RESISTOR
L = 60-MILLIHENRY R-F CHOKE
T = 465-KC I-F TRANSFORMER

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

NOV. 1, 1937
RCA RADIotron DIVISION
RCA MANUFACTURING COMPANY INC.
<table>
<thead>
<tr>
<th>FREQUENCY BAND MEGACYCLES</th>
<th>0.15 TO 0.40</th>
<th>0.55 TO 1.5</th>
<th>1.5 TO 4.0</th>
<th>4.0 TO 10</th>
<th>10 TO 25</th>
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</thead>
<tbody>
<tr>
<td>ASSEMBLY NO.</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>R-F COIL (L1)</td>
<td>422</td>
<td>36 SSE</td>
<td>116</td>
<td>30 SSE</td>
<td>146</td>
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<tr>
<td>OSC. GRID COIL (L2)</td>
<td>198</td>
<td>36 SSE</td>
<td>80</td>
<td>30 SSE</td>
<td>92</td>
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<tr>
<td>OSC. PLATE COIL (L3)</td>
<td>60</td>
<td>36 SSE</td>
<td>30</td>
<td>30 SSE</td>
<td>20</td>
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<tr>
<td>OSC. TRACKING COND. (C4)</td>
<td>117 μF</td>
<td>400 μF</td>
<td>1070 μF</td>
<td>2900 μF</td>
<td>7300 μF</td>
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</tbody>
</table>

### Diagrams

**No. 1**
- Multi-layer Coils
  - L1
  - L2
  - L3
  - Grid No. 1
  - Cathode
  - B+
- Grid No. 2

**No. 2**
- Single-layer Coils
  - L1

**No. 3**
- Single-layer Coils
  - L1
  - L2
  - L3
  - Grid No. 1
  - Cathode
  - B+
  - Grid No. 2