FULL-WAVE HIGH-VACUUM RECTIFIER

Heater: Coated Unipotential Cathode
Voltage: 5.0 a-c volts
Current: 2.0 amp.
Maximum Overall Length: 3-1/4"
Maximum Seated Height: 2-11/16"
Maximum Diameter: 1-5/16"
Bulb: Metal Shell, MT-8
Base: Small Wafer Octal 5-Pin
Pin 1 - Shell
Pin 2 - Heater
Pin 4 - Plate #2
Mounting Position: BOTTOM VIEW (5L)
Any

FULL-WAVE RECTIFIER

Peak Inverse Voltage: 1400 max. volts
Peak Plate Current per Plate: 375 max. ma.

With Condenser-Input Filter:
A-C Plate Voltage per Plate (RMS): 350 max. volts
Total Effective Plate-Supply Impedance per Plate: 50 min. ohms
D-C Output Current: 125 max. ma.

With Choke-Input Filter:
A-C Plate Voltage per Plate (RMS): 500 max. volts
Input-Choke Inductance: 5 min. henries
D-C Output Current: 125 max. ma.

▲ When a filter-input condenser larger than 40 μf is used, it may be necessary to use more plate-supply impedance than the minimum value shown to limit the peak plate current to the rated value.

HALF-WAVE RECTIFIER

As a half-wave rectifier, the 5Z4 may be operated with plates connected in parallel at the socket. Two 5Z4's so connected in a full-wave circuit will deliver twice the d-c output current obtainable from one tube. In this service the allowable voltage and load conditions per tube are the same as for full-wave service.

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AVERAGE PLATE CHARACTERISTIC

Sept. 2, 1941
OPERATION CHARACTERISTICS

\[ E_f = 5 \text{ VOLTS} \]

- \( \text{CHOKE (L) INPUT TO FILTER:} \]
  \[ L = 5 \text{ HENRIES (MIN.)} \]

- \( \text{CONDENSER (C) INPUT TO FILTER:} \]
  \[ \text{TOTAL EFFECT, PLATE-SUPPLY IMPEDANCE PER PLATE = 30 OHMS} \]

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<table>
<thead>
<tr>
<th>D-C OUTPUT VOLTS AT INPUT TO FILTER</th>
<th>250</th>
<th>300</th>
<th>350</th>
<th>400</th>
<th>500</th>
</tr>
</thead>
<tbody>
<tr>
<td>D-C LOAD MILLIAMPERES</td>
<td>0</td>
<td>40</td>
<td>80</td>
<td>120</td>
<td>160</td>
</tr>
</tbody>
</table>

DEC. 5, 1939

RCA RADIOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.

92C-4430R2