GENERAL DATA

Electrical:
Heater, for Unipotential Cathodes:
  Voltage .................. 50 ........ ac or dc volts
  Current .................. 0.150 ........ amp

Mechanical:
Mounting Position .................. Any
Maximum Overall Length ............ 3-5/32"
Maximum Seated Length ............. 2-5/8"
Maximum Diameter ................. 1-3/16"
Bulb .................. T-9
Base .................. Lock-in 8-Pin
Basing Designation for BOTTOM VIEW ........ 7AJ

RECTIFIER OR DOUBLER

Pin 1-Heater .................. Pin 5-No Connection
Pin 2-Cathode of Unit No. 2 .... Pin 6-Plate of Unit No. 1
Pin 3-Plate of Unit No. 2 ....... Pin 7-Cathode of Unit No. 1
Pin 4-No Connection ............ Pin 8-Heater Plug-Base Shell

Maximum Ratings, Design-Center Values:
PEAK INVERSE PLATE VOLTAGE ........ 700 max. volts
PEAK PLATE CURRENT PER PLATE ........ 450 max. ma
DC OUTPUT CURRENT PER PLATE ........ 75 max. ma
PEAK HEATER-CATHODE VOLTAGE:
  Heater negative with respect to cathode. 350 max. volts
  Heater positive with respect to cathode. 350 max. volts

Typical Operation as Half-Wave Rectifier with Capacitor-Input to Filter: 0
AC Plate-Supply Voltage per Plate (RMS) ... 117 150 235 volts
Filter-Input Capacitor ............ 16 16 16 μf
Min. Total Effective Plate-
  Supply Impedance per Plate ....... 15 40 100 ohms
DC Output Current per Plate ........ 75 75 75 ma

Typical Operation as Voltage Doubler:

<table>
<thead>
<tr>
<th>Half-Wave</th>
<th>Full-Wave</th>
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</thead>
<tbody>
<tr>
<td>AC Plate-Supply Voltage per Plate (RMS)</td>
<td>117</td>
</tr>
<tr>
<td>Filter-Input Capacitor per Plate</td>
<td>16</td>
</tr>
</tbody>
</table>
| Min. Total Effective Plate-
  Supply Impedance per Plate | 30 | 15 ohms |
| DC Output Current | 75 | 75 ma |

0 In half-wave rectifier service, the two units may be used separately or in parallel.

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TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY