THE TUNG-SOL 2A7 AND 6A7 ARE PENTAGRID CONVERTERS DESIGNED FOR SERVICE AS OSCILLATORS AND MIXERS IN AC OPERATED AND AC-DC OPERATED RECEIVERS. WITH THE EXCEPTION OF HEATER RATINGS, THEY HAVE IDENTICAL RATINGS AND ELECTRICAL CHARACTERISTICS.

<table>
<thead>
<tr>
<th></th>
<th>2A7</th>
<th>6A7</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEATER</td>
<td>2.5 VOLTS</td>
<td>6.3 VOLTS</td>
</tr>
<tr>
<td>AMPERE</td>
<td>0.8 AMPERE</td>
<td>0.3 AMPERE</td>
</tr>
<tr>
<td>AC OR DC</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

GLASS BULB

SMALL 7 PIN BASE

RATINGS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAXIMUM PLATE (P) VOLTAGE</td>
<td>300   VOLTS</td>
</tr>
<tr>
<td>MAXIMUM SCREEN (Gs) SUPPLY VOLTAGE</td>
<td>300   VOLTS</td>
</tr>
<tr>
<td>MAXIMUM SCREEN VOLTAGE</td>
<td>100   VOLTS</td>
</tr>
<tr>
<td>MINIMUM EXTERNAL CONTROL GRID (G) BIAS VOLTAGE</td>
<td>0     VOLTS</td>
</tr>
<tr>
<td>MAXIMUM OSCILLATOR ANODE (G4) SUPPLY VOLTAGE</td>
<td>300   VOLTS</td>
</tr>
<tr>
<td>MAXIMUM OSCILLATOR ANODE VOLTAGE</td>
<td>200   VOLTS</td>
</tr>
<tr>
<td>MAXIMUM TOTAL CATHODE CURRENT</td>
<td>14    MA.</td>
</tr>
<tr>
<td>MAXIMUM PLATE DISSIPATION</td>
<td>1.0   WATT</td>
</tr>
<tr>
<td>MAXIMUM SCREEN DISSIPATION</td>
<td>0.3   WATT</td>
</tr>
<tr>
<td>MAXIMUM OSCILLATOR ANODE DISSIPATION</td>
<td>0.75  WATT</td>
</tr>
</tbody>
</table>

FOR "INTERPRETATION OF RATINGS" REFER TO FRONT OF BOOK.

CONTINUED NEXT PAGE
DIRECT INTERELECTRODE CAPACITANCES

CONTROL GRID (G) TO MIXER PLATE (P)
CONTROL GRID (G) TO OSCILLATOR ANODE (GA)
CONTROL GRID (G) TO OSCILLATOR GRID (G0)
OSCILLATOR GRID (G0) TO OSCILLATOR ANODE (GA)
RF INPUT: CONTROL GRID (G) TO ALL OTHER ELECTRODES
OSCILLATOR INPUT: OSCILLATOR GRID (G0) TO ALL OTHER ELECTRODES
OSCILLATOR OUTPUT: OSCILLATOR ANODE (GA) TO ALL OTHER ELECTRODES
MIXER OUTPUT: MIXER PLATE (P) TO ALL OTHER ELECTRODES

0.3 µf
0.15 µf
0.15 µf
1.0 µf
8.5 µf
7.0 µf
5.5 µf
9.0 µf

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CONVERTER SERVICE

PLATE (P) VOLTAGE
SCREEN (G5) VOLTAGE
CONTROL GRID (G) VOLTAGE MIN.
OSCILLATOR ANODE (GA) SUPPLY VOLTAGE
OSCILLATOR ANODE VOLTAGE
OSCILLATOR GRID (GO) RESISTOR
PLATE CURRENT
SCREEN CURRENT
OSCILLATOR ANODE CURRENT
OSCILLATOR GRID CURRENT
TOTAL CATHODE CURRENT
PLATE RESISTANCE APPROX.
CONVERSION TRANSCONDUCTANCE
CONVERSION TRANSCONDUCTANCE APPROX.

100 250 VOLTS
50 100 VOLTS
-1.5 -3 VOLTS
- 250 VOLTS
100 - VOLTS
50000 50000 OHMS
1.1 3.5 MA.
1.3 2.7 MA.
2.0 4.0 MA.
0.25 0.4 MA.
4.6 10.6 MA.
0.6 0.36 MEGOHM
360 - ΩMhos
180 550 ΩMhos
50 325 ΩMhos
- 100 ΩMhos
3 - ΩMhos
- 6 ΩMhos

APPLIED THROUGH A 20 000 OHM DROPPING RESISTOR
WITH EXTERNAL SHIELD CONNECTED TO CATHODE