THE 6FV6 IS A SHARP-CUTOFF TETRODE IN THE 7 PIN MINIATURE CONSTRUCTION. IT IS DESIGNED FOR USE AS AN RF AMPLIFIER IN VHF TUNERS OF TELEVISION RECEIVERS. THIS TUBE FEATURES HIGH TRANSCONDUCTANCE AND A HIGH RATIO OF PLATE CURRENT TO GRID #2 CURRENT.

DIRECT INTERELECTRODE CAPACITANCES - APPROX.
WITH EXTERNAL SHIELD #326 CONNECTED TO CATHODE

GRID #1 TO PLATE (MAX.)  0.03 µf
GRID #1 TO CATHODE, I.S., G2, & H.  4.5 µf
PLATE TO CATHODE, I.S., G2, & H.  3 µf
CATHODE TO HEATER  2.7 µf

RATINGS
INTERPRETED ACCORDING TO DESIGN MAXIMUM SYSTEM
CLASS A1 AMPLIFIER

HEATER VOLTAGE  6.3±10% VOLTS
MAXIMUM PLATE VOLTAGE  275 VOLTS
MAXIMUM GRID #2 (SCREEN-GRID) SUPPLY VOLTAGE  180 VOLTS
MAXIMUM GRID #2 VOLTAGE  SEE FIG.#3
MAXIMUM GRID #1 (CONTROL-GRID) VOLTAGE:
POSITIVE-BIAS VALUE  0 VOLTS
MAXIMUM CATHODE CURRENT  20 MA.
MAXIMUM GRID #2 INPUT:
FOR GRID #2 VOLTAGES UP TO 90 VOLTS  0.5 WATT
FOR GRID #2 VOLTAGES BETWEEN 90 & 180 VOLTS  SEE FIG.#3
MAXIMUM PLATE DISSIPATION  2 WATTS
MAXIMUM PEAK HEATER-CATHODE VOLTAGE:
HEATER NEGATIVE WITH RESPECT TO CATHODE  200 VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE  200 A
MAXIMUM CIRCUIT VALUES:
GRID #1 CIRCUIT RESISTANCE  0.5 MEGOHM

A THE DC COMPONENT MUST NOT EXCEED 100 VOLTS.

CONTINUED ON FOLLOWING PAGE
TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A1 AMPLIFIER

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEATER VOLTAGE</td>
<td>6.3 ± 10%</td>
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<tr>
<td>HEATER CURRENT</td>
<td>0.2 AMP.</td>
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<tr>
<td>PLATE VOLTAGE</td>
<td>125 VOLTS</td>
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<tr>
<td>GRID #2 (SCREEN-GRID) VOLTAGE</td>
<td>80 VOLTS</td>
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<tr>
<td>GRID #1 (CONTROL-GRID) VOLTAGE</td>
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<tr>
<td>PLATE RESISTANCE (APPROX.)</td>
<td>0.1 MEGOHM</td>
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<tr>
<td>TRANSCONDUCTANCE</td>
<td>8000 ΩMHO</td>
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<tr>
<td>PLATE CURRENT</td>
<td>10 MA.</td>
</tr>
<tr>
<td>GRID #2 CURRENT</td>
<td>1.5 MA.</td>
</tr>
<tr>
<td>GRID #1 VOLTAGE (APPROX.)</td>
<td>-6 VOLTS</td>
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</tbody>
</table>

FOR PLATE CURRENT OF 20 µA.