DESCRIPTION
Pentode for use in transistron circuits in television receivers.

MECHANICAL DATA
Cathode: coated, unipotential
Outline: 6-2
Bulb: T6½
Base: E9-1
Basing: 9 BJ
Mounting position: any

Tube outline
Bottom view
of base

Base pin
No.
1
2
3
4
5
6
7
8
9

Element
Grid No.2
Internal shield
Cathode
Heater
Heater
Plate
Internal shield
Grid No.3
Grid No.1

HEATER DATA
Heater voltage: 2.5 V
Heater current: 0.6 A

DIRECT INTERELECTRODE CAPACITANCES
Grid No.1 to all other elements except plate: 3.5 µµF
Plate to all other elements except grid No.1: 5.0 µµF
Plate to grid No.1: max. 0.05 µµF
Grid No.1 to heater: max. 0.003 µµF

MAXIMUM RATINGS (design centre values)
Plate voltage: max. 300 V
Plate voltage without current: max. 550 V
Plate dissipation: max. 1 W
Grid No.2 voltage: max. 200 V
Grid No.2 voltage without current: max. 550 V
Grid No.2 dissipation: max. 0.2 W
Cathode current: max. 4 mA
Peak cathode current: max. 25 mA

Grid No.1 circuit resistance at a plate dissipation less than 0.2 W: min. 10 MΩ
Grid No.1 circuit resistance at a plate dissipation higher than 0.3 W: min. 3 MΩ
Grid No.3 circuit resistance: min. 0.1 MΩ
Voltage between heater and cathode: max. 100 V
Circuit resistance between heater and cathode: max. 30000 Ω

1) Max. voltage across 3% of a cycle with a maximum of 6 Ω.
<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value 1</th>
<th>Value 2</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plate voltage</td>
<td>100</td>
<td>250</td>
<td>V</td>
</tr>
<tr>
<td>Grid No. 3 voltage</td>
<td>-30</td>
<td>0</td>
<td>V</td>
</tr>
<tr>
<td>Grid No. 2 voltage</td>
<td>35</td>
<td>140</td>
<td>V</td>
</tr>
<tr>
<td>Grid No. 1 voltage</td>
<td>0</td>
<td>-2</td>
<td>V</td>
</tr>
<tr>
<td>Plate current</td>
<td>&lt; 0.01</td>
<td>3</td>
<td>mA</td>
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<tr>
<td>Grid No. 2 current</td>
<td></td>
<td>0.6</td>
<td>mA</td>
</tr>
<tr>
<td>Transconductance</td>
<td></td>
<td>2000</td>
<td>μA</td>
</tr>
<tr>
<td>Plate resistance</td>
<td></td>
<td>2.5</td>
<td>MΩ</td>
</tr>
<tr>
<td>Amplification factor of grid No. 2</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>with respect to grid No. 1</td>
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<td>38</td>
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</tbody>
</table>