Sharp-Cutoff Pentode

9-PIN MINIATURE TYPE

GENERAL DATA

Electrical:
Heater Characteristics and Ratings (Absolute-Maximum Values):
Voltage (AC or DC)............ 6.3 ± 0.6 volts
Current at heater volts = 6.3........ 0.300 amp
Peak heater-cathode voltage:
Heater negative with
respect to cathode.............. 55 max. volts
Heater positive with
respect to cathode.............. 55 max. volts
Direct Interelectrode Capacitances:

Without External Shield
Grid No.1 to plate............. 0.05 max.        With External Shield
Grid No.1 to cathode &
grid No.3 & internal
shield, grid No.2, and
heater.......................... 7           7.1        μf
Plate to cathode & grid
No.3 & internal shield,
grid No.2, and heater...... 2.5           2.9        μf

Characteristics, Class A Amplifier:
Plate Supply Voltage........ 150          160        volts
Grid-No.2 Supply Voltage.... 150          160        volts
Grid-No.1 Voltage............ 8.5           8.5        volts
Cathode Resistor............. 110          600        ohms
Transconductance........... 12500         12500       μmhos
Plate Current................. 13           13        ma
Grid-No.2 Current........... 4.5           4.5        ma

Mechanical:
Operating Position.............. Any
Type of Cathode................ Coated Unipotential
Maximum Overall Length........ 1-3/4"
Maximum Seated Length.......... 1-1/2"
Length, Base Seat to Bulb Top (Excluding tip)........ 1-1/8" ± 3/32"
Diameter........................ 0.750" to 0.875"
Dimensional Outline............ See General Section
Bulb............................ T6-1/2
Base . . . . . . . Small-Button Noval 9-Pin (JEDEC No.E9-1)
Basing Designation for BOTTOM VIEW. . . . . . . . . . . . . . . . 9X

Pin 1 - Grid No.1
Pin 2 - No Internal Connection
Pin 3 - Heater
Pin 4 - Cathode, Grid No.3, Internal Shield

Pin 5 - No Internal Connection
Pin 6 - Plate Connection
Pin 7 - No Internal Connection
Pin 8 - Grid No.2
Pin 9 - Heater

AMPLIFIER — Class A

Maximum Ratings, Absolute-Maximum Values:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLATE VOLTAGE</td>
<td>200 max. volts</td>
</tr>
<tr>
<td>GRID-No.2 (SCREEN-GRID) VOLTAGE</td>
<td>165 max. volts</td>
</tr>
<tr>
<td>CATHODE CURRENT</td>
<td>40 max. ma</td>
</tr>
<tr>
<td>GRID-No.2 INPUT</td>
<td>0.85 max. watt</td>
</tr>
<tr>
<td>PLATE DISSIPATION</td>
<td>3.3 max. watts</td>
</tr>
</tbody>
</table>

Maximum Circuit Values:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grid-No.1-Circuit Resistance</td>
<td>0.1 max. megohm</td>
</tr>
</tbody>
</table>

\textsuperscript{a} With external shield JEDEC No.315 connected to cathode.

\textsuperscript{b} Operating conditions to minimize gain variations due to supply-voltage fluctuations.