Twin Diode—High-Mu Triode

9-PIN MINIATURE TYPE

GENERAL DATA

Electrical:
Heater, for Unipotential Cathodes:
Voltage (AC or DC) ....................... 6.3 ± 10% volts
Current at 6.3 volts ..................... 0.45 amp
Direct Interelectrode Capacitances (Approx.):
Triode Unit:
Grid to plate ................................ 1.8 μf
Grid to cathode and heater ............ 1.5 μf
Plate to cathode and heater .......... 0.16 μf
Diode Units:
Diode-No.1 plate to triode grid ...... 0.05 μf
Diode-No.2 plate to triode grid ...... 0.04 μf
Diode-No.1 cathode to all other tube electrodes .. 4.6 μf
Diode-No.2 cathode to all other tube electrodes .. 4.8 μf
Diode-No.1 plate to cathode and heater 2.4 μf
Diode-No.2 plate to cathode and heater 2.2 μf

Characteristics, Class A1 Amplifier (Triode Unit):
Plate Voltage ................................ 250 volts
Grid Voltage ................................ 3 volts
Amplification Factor ...................... 70
Plate Resistance (Approx.) .......... 58000 ohms
Transconductance ....................... 1200 μmhos
Plate Current .............................. 1 ma

Mechanical:
Operating Position ........................ Any
Maximum Overall Length ................ 2–3/16"
Maximum Seated Length ................. 1–15/16"
Length, Base Seat to Bulb Top (Excluding tip) . 1–9/16" ± 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 ................. 9KR

Pin 1—Diode-No.2 Cathode
Pin 2—Diode-No.1 Plate
Pin 3—Diode-No.1 Cathode
Pin 4—Heater
Pin 5—Heater
Pin 6—Diode-No.2 Plate
Pin 7—Triode Cathode
Pin 8—Triode Grid
Pin 9—Triode Plate
TRIODE UNIT — AMPLIFIER — Class A₁

Maximum Ratings, Design-Maximum Values:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLATE VOLTAGE</td>
<td>330 max. volts</td>
</tr>
<tr>
<td>GRID VOLTAGE:</td>
<td></td>
</tr>
<tr>
<td>Positive-bias value</td>
<td>0 max. volts</td>
</tr>
<tr>
<td>PLATE DISSIPATION</td>
<td>1.1 max. watts</td>
</tr>
<tr>
<td>PEAK HEATER-CATHODE VOLTAGE:</td>
<td></td>
</tr>
<tr>
<td>Heater negative with respect to cathode</td>
<td>200 max. volts</td>
</tr>
<tr>
<td>Heater positive with respect to cathode</td>
<td>200 max. volts</td>
</tr>
</tbody>
</table>

DIODE UNITS — Two

Values are for Each Unit

Maximum Ratings, Design-Maximum Values:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLATE CURRENT</td>
<td>5 max. ma</td>
</tr>
<tr>
<td>PEAK HEATER-CATHODE VOLTAGE:</td>
<td></td>
</tr>
<tr>
<td>Heater negative with respect to cathode</td>
<td>200 max. volts</td>
</tr>
<tr>
<td>Heater positive with respect to cathode</td>
<td>200 max. volts</td>
</tr>
</tbody>
</table>

Characteristics, Instantaneous Test Condition:

Plate Current for plate volts = 5 . . . . . 20 ma

* Without external shield.

* The dc component must not exceed 100 volts.