MECHANICAL DATA

Bulb . T-6½
Base . E9-1, Miniature Button 9-Pin
Outline . 6-2
Basing . 9A
Cathode . Coated Unipotential
Mounting Position . Any

ELECTRICAL DATA

HEATER CHARACTERISTICS

Heater Voltage Series/Parallel . 12.6/6.3 Volts
Heater Current Series/Parallel . 150/300 Ma
Heater-Cathode Voltage
(Design Center Values)
Heater Negative with Respect to Cathode
Total DC and Peak . 200 Volts Max.
Heater Positive with Respect to Cathode
DC . 100 Volts Max.
Total DC and Peak . 200 Volts Max.

DIRECT INTERELECTRODE CAPACITANCES

<table>
<thead>
<tr>
<th>Section 1</th>
<th>Shielded²</th>
<th>Unshielded</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grid to Plate</td>
<td>1.7</td>
<td>1.7</td>
</tr>
<tr>
<td>Input g to (h+k)</td>
<td>1.8</td>
<td>1.6</td>
</tr>
<tr>
<td>Output p to (h+k)</td>
<td>1.9</td>
<td>0.46</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Section 2</th>
<th>Shielded²</th>
<th>Unshielded</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grid to Plate</td>
<td>1.7 µuf</td>
<td>1.7 µuf</td>
</tr>
<tr>
<td>Input g to (h+k)</td>
<td>1.8 µuf</td>
<td>1.6 µuf</td>
</tr>
<tr>
<td>Output p to (h+k)</td>
<td>1.9 µuf</td>
<td>0.34 µuf</td>
</tr>
</tbody>
</table>

RATINGS (Design Center Values) Each Section

Plate Voltage . 300 Volts Max.
Plate Dissipation . 1.0 Watt Max.
Positive Grid Voltage . 0 Volts Max.
Negative Grid Voltage . −50 Volts Max.

CHARACTERISTICS AND TYPICAL OPERATION

Class A₁ Amplifier — Each Section
Plate Voltage . 100 250 Volts
Grid Voltage . −1 −2 Volts
Plate Current . 0.5 1.2 Ma
Transconductance . 1250 1600 µmhos
Amplification Factor . 100 100
Plate Resistance . 80,000 62,500 Ohms

EQUIVALENT NOISE AND HUM VOLTAGE
(Referenced to Grid — Each Unit)
Average Value¹ (RMS) . 1.8 µVolts
Maximum Value¹ (RMS) . 7 µVolts

Sylvania Electronic Tubes
A Division of Sylvania Electric Products, Inc.
Receiving Tube Operations
Emporium, Pennsylvania
Prepared and Released By The Technical Publications Section
Emporium, Pennsylvania
December 1958
NOTES:

1. Section No. 1 connects to Pins 6, 7, and 8.
   Section No. 2 connects to Pins 1, 2, and 3.

2. External shield No. 315 connected to cathode of section under test.

3. Measured under the following conditions: \( E_f = 6.3 \text{ Vac} \), parallel connection; center-tap of heater transformer grounded; \( E_f = 250 \text{ Vdc} \); \( R_g = 0.1 \text{ Megohm} \); \( R_k = 2700 \text{ Ohms} \); \( C_k = 100 \mu\text{f} \); \( R_g = 0 \); \( f = 25 \) to 10,000 cps.

4. Measured under same conditions as "Average Value" except that \( R_k \) is unbypassed and \( R_g = 50,000 \text{ Ohms} \).
AVERAGE PLATE CHARACTERISTICS
AVERAGE TRANSFER CHARACTERISTICS

\[ E_f = \text{RATED VALUE} \]

![Graph showing average transfer characteristics with grid lines and labels for amplification factor, transconductance, plate resistance, and grid no. 1 voltage.](image-url)