TWIN TRIODE
MINIATURE TYPE

COATED UNIPOTENTIAL CATHODE

HEATER
6.3 VOLTS 0.4 AMP.
AC OR DC
ANY MOUNTING POSITION


DIRECT INTERELECTRODE CAPACITANCES
WITH EXTERNAL SHIELD #335

<table>
<thead>
<tr>
<th>#1 TRIODE</th>
<th>#2 TRIODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRID TO PLATE (G TO P)</td>
<td>1.15</td>
</tr>
<tr>
<td>PLATE TO CATHODE (P TO K)</td>
<td>---</td>
</tr>
<tr>
<td>#1 TRIODE PLATE TO #2 TRIODE PLATE</td>
<td>0.010</td>
</tr>
</tbody>
</table>

RATINGS
INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

EACH SECTION

| HEATER VOLTAGE | 6.3 VOLTS |
| MAXIMUM HEATER-CATHODE VOLTAGE | |
| HEATER POSITIVE WITH RESPECT TO CATHODE | 200 VOLTS |
| HEATER NEGATIVE WITH RESPECT TO CATHODE | 200 VOLTS |
| MAXIMUM PLATE VOLTAGE | 250 VOLTS |
| MAXIMUM PLATE DISSIPATION | 2.2 WATTS |
| MAXIMUM CATHODE CURRENT | 20 MA |
| MAXIMUM GRID CIRCUIT RESISTANCE | 0.1 MEGOHM |

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS
CLASS A1 AMPLIFIER — EACH SECTION

| HEATER VOLTAGE | 0.3 VOLTS |
| HEATER CURRENT | 0.4 AMP. |
| PLATE VOLTAGE | 125 VOLTS |
| CATHODE RESISTOR | 100 OHMS |
| PLATE RESISTANCE | 5 600 OHMS |
| TRANSCONDUCTANCE | 8 000 \( \mu A \) |
| AMPLIFICATION FACTOR | 45 |
| PLATE CURRENT | 10 MA |
| GRID VOLTAGE (APPROX. FOR \( g_m = 50 \mu A \) | -13 VOLTS |
| CASCODE TRANSCONDUCTANCE (\( E_b 250V E_{C_1} -0.5V \)) | 10 000 \( \mu A \) |
| CASCODE PLATE CURRENT (\( E_b 250V E_{C_1} -0.5V \)) | 15 MA |

CONTINUED ON FOLLOWING PAGE
CASCODE TRANSCONDUCTANCE TEST CIRCUIT

\[ E_b \]
\[ 250 \text{ V, D.C.} \]

\[ 470 \text{ K} \]
\[ \text{MATCHED TO WITHIN 1\%} \]

\[ E_c \]
\[ -0.5 \text{ V} \]

\[ S_h \]
\[ 0.1 \]

\[ \mu f \]

\[ 470 \text{ K} \]