TWIN TRIODE
MINIATURE TYPE

FOR
USE IN MATRIXING CIRCUITS
OF COLOR T.V. RECEIVERS

COATED UNIPOTENTIAL CATHODE
ANY MOUNTING POSITION

THE 6GU7 IS A MEDIUM-MU TWIN TRIODE IN THE 9 PIN T-6½ ENVELOPE. IT IS DESIGNED FOR USE IN THE MATRIXING CIRCUITS OF COLOR T.V. RECEIVERS. THE 6GU7 CAN ALSO BE USED IN PHASE-INVERTER AND MULTIVIBRATOR CIRCUITS OR AS A GENERAL-PURPOSE AMPLIFIER TUBE.

DIRECT INTERELECTRODE CAPACITANCES
WITHOUT EXTERNAL SHIELD

<table>
<thead>
<tr>
<th></th>
<th>UNIT #1</th>
<th>UNIT #2</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRID TO PLATE</td>
<td>3.0</td>
<td>3.0</td>
</tr>
<tr>
<td>GRID TO CATHODE AND HEATER</td>
<td>3.4</td>
<td>3.6</td>
</tr>
<tr>
<td>PLATE TO CATHODE AND HEATER</td>
<td>0.44</td>
<td>0.34</td>
</tr>
<tr>
<td>PLATE OF UNIT #1 TO PLATE OF UNIT #2</td>
<td>1.0</td>
<td>1.0</td>
</tr>
</tbody>
</table>

HEATER CHARACTERISTICS AND RATINGS
DESIGN MAXIMUM VALUES • SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS
6.3 VOLTS 600 mA
HEATER WARMUP TIME
APPROX. 11 SECONDS

LIMITS OF APPLIED VOLTAGE
6.3 ± 0.6 VOLTS
LIMITS OF SUPPLIED CURRENT
600 ± 40 mA

PEAK HEATER CATHODE VOLTAGE • EACH UNIT
HEATER NEGATIVE WITH RESPECT TO CATHODE
200 VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE
200 VOLTS
DC COMPONENT
100 VOLTS

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MAXIMUM RATINGS
DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239
CLASS A, AMPLIFIER - EACH UNIT

PLATE VOLTAGE 330 VOLTS
GRID VOLTAGE:
  POSITIVE BIAS VALUE 0 VOLTS
PLATE DISSIPATION 3 WATTS
GRID - CIRCUIT RESISTANCE:
  FOR FIXED BIAS OPERATION 1 MEGOHM

CHARACTERISTICS
CLASS A, AMPLIFIER - EACH UNIT

PLATE VOLTAGE 250 VOLTS
GRID VOLTAGE -16.5 VOLTS
PLATE CURRENT 11.5 mA
TRANSCONDUCTANCE 3,100 mhos
AMPLIFICATION FACTOR 17
PLATE RESISTANCE APPROX. 5,500 OHMS
PLATE CURRENT AT $E_C = -14$ VOLTS 4 mA
GRID VOLTAGE FOR $I_B = 50$ μA APPROX. -73 VOLTS