6AN4
HIGH-MU TRIODE
7-PIN MINIATURE TYPE
For UHF TV service

GENERAL DATA

Electrical:
Heater, for Unipotential Cathode:
Voltage ............. 6.3 ........ ac or dc volts
Current ............. 0.225 ........ amp

Direct Interelectrode Capacitances (Approx.):

<table>
<thead>
<tr>
<th>Without External Shield</th>
<th>With External Shield</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grid to plate ........... 1.7</td>
<td>1.7 μf</td>
</tr>
<tr>
<td>Grid to cathode and heater</td>
<td>2.9</td>
</tr>
<tr>
<td>Plate to cathode and heater</td>
<td>0.25</td>
</tr>
<tr>
<td>Heater to cathode ........ 3</td>
<td>2.9 μf</td>
</tr>
<tr>
<td>Grid to cathode .......... 2.6</td>
<td>2.6 μf</td>
</tr>
<tr>
<td>Plate to cathode .......... 0.2</td>
<td>0.18 μf</td>
</tr>
<tr>
<td>Cathode to grid and heater</td>
<td>5.5</td>
</tr>
<tr>
<td>Plate to grid and heater ........ 1.8</td>
<td>3.4 μf</td>
</tr>
</tbody>
</table>

Characteristics, Class A1 Amplifier:
Plate-Supply Voltage . .......... 200 volts
Cathode Resistor . .......... 100 ohms
Amplification Factor . .......... 70
Transconductance . .......... 10000 μmhos
Plate Current .......... 13 ma
Grid Voltage (Approx.) for plate current of 20 μa .......... -7 volts

Mechanical:
Mounting Position .......... Any
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"
Maximum Diameter .......... 3/4"
Dimensional Outline .......... See General Section
Bulb .......... Small-Button Miniature 7-Pin (JETEC No.E7-1)

Base .......... Small-Button Miniature 7-Pin (JETEC No.E7-1)
Basing Designation for BOTTOM VIEW .......... 7DK

Pin 1 - Plate
Pin 2 - Grid
Pin 3 - Heater
Pin 4 - Heater
Pin 5 - Cathode
Pin 6 - Grid
Pin 7 - Plate

With external shield JETEC No.316 connected to cathode except as noted.
With external shield JETEC No.316 connected to ground.
With external shield JETEC No.316 connected to grid.
AMPLIFIER - Class A₁

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE ................. 300 max. volts
CATHODE CURRENT ............... 30 max. ma
PLATE DISSIPATION .............. 4 max. watts
PEAK HEATER-CATHODE VOLTAGE:
  Heater negative with respect to cathode. 200 max. volts
  Heater positive with respect to cathode. 200 max. volts

Maximum Circuit Values:

Grid-Circuit Resistance:
  For fixed-bias operation ........ 0.1 max. megohm
  For cathode-bias operation ....... 0.5 max. megohm

▲ The dc component must not exceed 100 volts.