**NTE1164**

Integrated Circuit

TV Video Signal Processing Circuit

**Features:**
- DC Controlled Adjustment
- Sync. Separator (Including Noise Canceller)
- Pedestal Clamping (Including Clamping Pulse Generator)
- Brightness Control
- Blanking Circuits

**Absolute Maximum Ratings:** \((T_A = +25°C\) unless otherwise specified)

<table>
<thead>
<tr>
<th>Supply Voltage, (V_{16-2})</th>
<th>14.4V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Circuit Voltage, (V_{1-2})</td>
<td>1V to –3V</td>
</tr>
<tr>
<td>(V_{3, 7, 10, 15-2})</td>
<td>(V_{16-2}) to 0V</td>
</tr>
<tr>
<td>(V_{4-2, 14-2})</td>
<td>6V to 0V</td>
</tr>
<tr>
<td>(V_{5-2})</td>
<td>9V to –3V</td>
</tr>
<tr>
<td>(V_{8-2})</td>
<td>(V_{16-2}) to 5V</td>
</tr>
</tbody>
</table>

| Circuit Current, \(I_{1, 8, 10, 14}\) | 1mA to 0mA |
| \(I_{3}\)                           | 5mA to –3mA |
| \(I_{5}\)                           | 3mA to –0.5mA |
| \(I_{6}\)                           | 0 to –1mA |
| \(I_{7, 15}\)                       | 0 to –1mA |
| \(I_{9}\)                           | 0.1mA to –3mA |
| \(I_{11}\)                          | 1mA to –1mA |
| \(I_{12}\)                          | 5mA to –2mA |
| \(I_{13}\)                          | 3mA to –5mA |

Total Circuit Current, \(I_{tot}\) .............................................. 36mA

Power Dissipation, \(P_D\) ................................................. 520mW

Operating Temperature Range, \(T_{opr}\) .......................................................... \(-20°\) to \(+70°C\)

Storage Temperature Range, \(T_{stg}\) .................................................. \(-40°\) to \(+150°C\)
Pin Connection Diagram

1. Video Input (Sync Pos)
2. GND
3. Sync Output
4. Video Input (Sync Pos)
5. Deflect Pulse Input
6. Blank Pulse Output
7. Brightness Control
8. Couple (From Pin 9)
9. Couple (To Pin 8)
10. N.C.
11. N.C.
12. N.C.
13. N.C.
14. Video Input (Sync Neg)
15. Contrast Control
16. VCC

Dimensions:
- Width: .300 (7.62) Max
- Height: .260 (6.6) Max
- Height: .785 (19.9) Max
- Height: .200 (5.08) Max
- Height: .245 (6.22) Min
- Height: .100 (2.54)
- Height: .700 (17.7)