

NTE1415 Integrated Circuit Color Compensation Circuit

Absolute Maximum Ratings: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

| | |
|---|-------------------------------------|
| Supply Voltage (V_{8-21}), V_{CC} | 14.4V |
| Power Dissipation, P_D | 700mW |
| Operating Temperature Range, T_{opr} | -20° to $+70^\circ\text{C}$ |
| Storage Temperature Range, T_{stg} | -20° to $+150^\circ\text{C}$ |

Electrical Characteristics: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|-------------------------------------|----------------|------------------------------|------|------|------|-------|
| Circuit Current | I_8 | | 20 | 26 | 33 | mA |
| | I_{17} | | 5 | 12 | 19 | mA |
| Tint Manual Output Level | $V_{9-2(H)}$ | | 10.3 | 11.0 | 11.7 | V |
| | $V_{9-2(L)}$ | | 0.6 | 1.3 | 2.0 | V |
| Color Manual Output Level | $V_{20-21(H)}$ | | 9.5 | 10.2 | 10.9 | V |
| | $V_{20-21(L)}$ | | 0 | – | 0.3 | V |
| Tint Auto Output Level | $V_{11-21(H)}$ | $V_{CC1} = V_{8-21} = 12V$ | 9.5 | 10.2 | 10.9 | V |
| | $V_{11-21(L)}$ | | 0.4 | 1.7 | 2.7 | V |
| Color Auto Output Level | $V_{19-21(H)}$ | $V_{CC2} = V_{17-21} = 5.1V$ | 10.1 | 10.9 | 11.7 | V |
| | $V_{19-21(L)}$ | | 0.4 | 1.8 | 3.1 | V |
| VIR Detection Level | V_{VR} | | 0.23 | 0.28 | 0.33 | V |
| Tint Manual Coltrol Sensitivity | S_{TM} | | 0.83 | 0.94 | 1.05 | times |
| Color Manual Control Sensitivity | S_{CM} | | 0.86 | 0.97 | 1.08 | times |
| Tint Auto Control Sensitivity | S_{TA} | | 40 | 43 | 46 | dB |
| Color Auto Control Sensitivity | S_{CA} | | 41.5 | 44.5 | 47.5 | dB |
| Tint Preference Control Sensitivity | S_{TP} | | -1.5 | -1.3 | -1.1 | times |

Pin Connection Diagram

