



ELECTRONICS, INC.
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NTE1080 Integrated Circuit TV Video Processor

Features:

- For Reverse AGC
- Sufficient Gain and Quieting Sensitivity
- Stable Gain Over the Wide Band
- Small Wave Distortion with AGC

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

Maximum Voltage

| | | |
|---------------------|--|--------------------|
| V_{11} | | 18V |
| V_7, V_8 | | 18V |
| V_1, V_2 | | 10V _{P-P} |
| V_6, V_{10} | | 6V |
| V_5 | | -20V to +10V |

Allowable Power Dissipation ($T_A \leq +65^\circ\text{C}$), P_{Dmax} 500mW

Operating Temperature Range, T_{opr} -20° to $+85^\circ\text{C}$

Storage Temperature Range, T_{stg} -55° to $+125^\circ\text{C}$

Electrical Characteristics: ($T_A = +25^\circ\text{C}$, $V_{11} = 12\text{V}$ unless otherwise specified)

| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|---------------------------|-------------------|---------------------------------------|-----|------|-----|-------------------|
| AGC Range | | $f = 58\text{MHz}$, 5V to 7V | 60 | - | - | dB |
| Power Gain | PG | $f = 58\text{MHz}$ | 44 | 50 | 55 | dB |
| Noise Figure | NF | $R_S = 50\Omega$, $f = 58\text{MHz}$ | - | 7.0 | - | dB |
| Maximum Output Voltage | v_o | AGC, 0 to -30dB | 200 | - | - | mV _{rms} |
| RF AGC Voltage Range | | Max V_{12} | - | 8.2 | - | V |
| | | Min V_{12} | - | -6.0 | - | V |
| Output Voltage Drift | Δv_o | IF Attenuation = 60dB | - | 0.3 | - | dB |
| IF Gain Drift | ΔPG | Within RF AGC Operation | - | 10 | 17 | dB |
| RF AGC Delay | V_{13} | IF Attenuation = 30dB | 6.0 | 7.0 | 8.0 | V |
| Output Stage Current | I_o | $I_7 + I_8$ | - | 8.5 | - | mA |
| Total Dissipation Current | I_{CC} | $I_7 + I_8 + I_{11}$ | - | 28 | 33 | mA |
| Total Power Dissipation | P_D | | - | 336 | 396 | mW |

Pin Connection Diagram

