

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

