



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

