



**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 <sub>P-P</sub>
$V_6, V_{10}$ .....	6V
$V_5$ .....	-20V to +10V

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

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

Storage Temperature Range,  $T_{stg}$  .....  $-55^\circ$  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 <sub>rms</sub>
RF AGC Voltage Range		Max $V_{12}$	-	8.2	-	V
		Min $V_{12}$	-	-6.0	-	V
Output Voltage Drift	$\Delta v_o$	IF Attenuation = 60dB	-	0.3	-	dB
IF Gain Drift	$\Delta\text{PG}$	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

