

## NTE1213 Integrated Circuit TV Video IF Amp

**Functions:**

- 1<sup>st</sup> Video IF Amplifier
- 2<sup>nd</sup> Video IF Amplifier
- Forward AGC Amplifier
- Reverse AGC Amplifier

**Absolute Maximum Ratings:**

Supply Voltage,  $V_{CC}$  ..... 15V  
 Power Dissipation ( $T_A = +85^{\circ}C$ ),  $P_D$  ..... 460mW  
 Operating Temperature Range,  $T_{opg}$  .....  $-20^{\circ}$  to  $+85^{\circ}C$   
 Storage Temperature Range,  $T_{stg}$  .....  $-55^{\circ}$  to  $+125^{\circ}C$

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Total Supply Current	$I_{TS}$	$V_{CC} = 12V, V_8 = 0V, R_L = 75k\Omega, Pin9: Open$	14.3	–	33.4	mA
Maximum Operating Current	$I_{Tmax}$	$V_{CC} = 12V, V_8 = 7V, R_L = 4.7k\Omega, Pin9: Open$	16.4	–	38.4	mA
Voltage Gain	$G_{Vmax}$	$V_{CC} = 12V, V_8 = 0V, V_9 = 8V, f = 57MHz$	51.0	–	–	dB
	$G_{Vmin}$	$V_{CC} = 12V, V_8 = 6V, V_9 = 8V, f = 57MHz$	–	–	4.0	dB
Forward AGC Voltage	$V_{Fmin}$	$V_{CC} = 12V, V_8 = 0V, R_L = 75k\Omega, Pin9: Open$	3.62	–	4.18	V
	$V_{Fmax}$	$V_{CC} = 12V, V_8 = 8V, R_L = 4.7k\Omega, V_9 = 11V$	6.5	–	–	V
Reverse AGC Voltage	$V_{Rmin}$	$V_{CC} = 12V, V_8 = 7V, V_9 = 11V, R_L = \infty$	–	–	1.0	V
	$V_{Rmax}$	$V_{CC} = 12V, V_8 = 0V, R_L = \infty, Pin9: Open$	10.0	–	–	V
IF AGC Voltage	$V_{IFAGCmin}$		–	–	2	V
	$V_{IFAGCmax}$		8	–	–	V

### Pin Connection Diagram

