



ELECTRONICS, INC.
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NTE1213 Integrated Circuit TV Video IF Amp

Functions:

- 1st Video IF Amplifier
- 2nd Video IF Amplifier
- Forward AGC Amplifier
- Reverse AGC Amplifier

Absolute Maximum Ratings:

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

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

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

Pin Connection Diagram

