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## NTE1618 Integrated Circuit TV Video IF Amp/AGC

**Features:**

- Good noise characteristics in strong signal condition made possible by IF AGC delayed operation inside circuit.
- Wide range of gain reduction and IF AGC.

**Absolute Maximum Ratings:** ( $T_A = +25^\circ\text{C}$  unless otherwise specified)

Supply Voltage, $V_{CC}$ .....	13.2V
Supply Current, $I_{CC}$ .....	29mA
Power Dissipation, $P_D$ .....	383mW
Operating Ambient Temperature Range, $T_{opr}$ .....	$-20^\circ$ to $+70^\circ\text{C}$
Storage Temperature Range, $T_{stg}$ .....	$-40^\circ$ to $+150^\circ\text{C}$

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Total Circuit Current	$I_{tot}$	$V_{CC} = 11V$	14	19	24	mA
Transfer Admittance	$ Y_2 $	$f = 58.75\text{MHz}$	50	120	200	mS
AGC Range	$H_{AGC}$		60	-	-	dB
Input Resistance	$R_i$		$f = 58.75\text{MHz}, V_i = 30_mV_{rms}$	-	2	-
Input Capacitance	$C_i$	-		7.5	-	pF
Output Capacitance	$C_o$	-		4	-	pF
Noise Figure	NF		-	9	-	dB
Voltage Gain (RF AGC)	$G_V$		105	130	150	times
Upper Voltage (RF AGC)	$V_{(Upper)}$	$V_{CC} = 11V, V_{3-5} = 4.5V$	8.3	8.8	9.3	V
Lower Voltage (RF AGC)	$V_{(Lower)}$	$V_{CC} = 11V, V_{3-5} = 3V$	-	-	0.1	V

**Pin Connection Diagram**  
(Front View)

