



ELECTRONICS, INC.
44 FARRAND STREET
BLOOMFIELD, NJ 07003
(973) 748-5089
<http://www.nteinc.com>

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° to $+70^\circ\text{C}$
Storage Temperature Range, T_{stg}	-40° 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	$f = 58.75\text{MHz}, V_i = 30_m V_{rms}$	–	2	–	k Ω
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)

