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 posible by IF AGC delayed operation inside circuit.
- Wide range of gain reduction and IF AGC.

Absolute Maximum Ratings: (T_A = +25°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°C
Storage Temperatuere Range, T_{stg} . . . . . –40° to +150°C

Electrical Characteristics: (T_A = +25°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 = 58.75MHz	50	120	200	mS
AGC Range	H_{AGC}		60	–	–	dB
Input Resistance	R_i	f = 58.75MHz, $V_i = 30_m V_{rms}$	–	2	–	kΩ
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)