ELECTRONICS, INC.
44 FARRAND STREET
BLOOMFIELD, NJ 07003
(973) 748–5089

NTE1104
Integrated Circuit
Wide and Narrow Band Amp, FM/IF Limiter

Applications:

- For FM IF Amplifier
- For TV SIF Amplifier

Absolute Maximum Ratings: (T_A = +25°C unless otherwise specified)

Supply Voltage, V_{CC} 15V
Output Voltage, V_{OUT} 24V
Input Voltage (Between Pin1 and Pin2), V_{IN} . . . . . ±15V
Power Dissipation, P_D 400mW
Derate Above 25°C . . . . . 3mW/°C
Operating Temperature Range (V_{CC} = 12V), T_{opr} . . . . . –30 to +75°C
Storage Temperature Range, T_{stg} . . . . . –55 to +125°C

Electrical Characteristics: (T_A = +25°C unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Supply Current	I_{CC}	V_{CC} = 12V	5.3	9.5	14.0	mA
		V_{CC} = 9V	–	6.5		mA
Power Dissipation	P_D	V_{CC} = 12V	–	114	–	mW
		V_{CC} = 9V	–	59	–	mW
Voltage Gain	G_V	V_{CC} = 12V, R_g = 50Ω, R_L = 1kΩ	–	26.5	–	dB
Input Impedance Parallel Input Resistance	r_{ip}	V_{CC} = 12V, f = 10.7MHz	–	35	–	kΩ
Parallel Input Capacitance	c_{ip}		–	8.0	–	pF
Output Impedance Parallel Input Resistance	r_{op}		–	80	–	kΩ
Parallel Input Capacitance	c_{op}		–	3.0	–	pF
Forward Transfer Admittance	y_f		–	30	–	mmhos
Reverse Transfer Admittance	y_r		–	2.0	–	μmhos

Pin Connection Diagram
(Front View)