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

NTE1474
Integrated Circuit
FM IF Amp

Features:

- High Sensitivity: $V_{IN(lim)}$ = 78dBμV
- Wide Frequency Capabilitity
- Regurated Voltage Output
- Wide Operating Supply Voltage Range: V_{CC} = 8V to 16V

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

Supply Voltage, V_{CC} 16V
Pin 5 Output Current, I_5 . . . . . 13mA
Power Dissipation (Note 1), P_D 500mW
Operating Temperature Range, T_{opr} . . . . . –25° to +75°C
Storage Temperature Range, T_{stg} . . . . . –55° to +150°C

Note 1. Derated above T_A = +25°C in the proportion of 4mW/°C

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Supply Current	I_{CC}		6.4	9.4	12.4	mA
Pin 6 Current	I_6		1.3	2.0	2.6	mA
Pin 5 Voltage	V_5		5.7	–	6.9	V
Voltage Gain	G_V	f = 10.7MHz, V_{in} = 60dBμV	31	34	37	dB
Input Limiting Voltage	$V_{IN(lim)}$	f = 10.7MHz, V_O = –3dB	–	78	–	dBμV
Parallel Input Resistance	r_{ip}	f = 10.7MHz	–	8	–	kΩ
Parallel Input Capacitance	c_{ip}		–	5	–	pF
Parallel Output Resistance	r_{op}		–	200	–	kΩ
Parallel Output Capacitance	c_{op}		–	2.5	–	pF

Pin Connection Diagram



