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NTE1474 Integrated Circuit FM IF Amp

Features:

- High Sensitivity: $V_{IN(lim)} = 78\text{dB}\mu\text{V}$
- Wide Frequency Capability
- Regulated Voltage Output
- Wide Operating Supply Voltage Range: $V_{CC} = 8\text{V}$ to 16V

Absolute Maximum Ratings: ($T_A = +25^\circ\text{C}$ 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 $+75^\circ\text{C}$
Storage Temperature Range, T_{stg} -55° to $+150^\circ\text{C}$

Note 1. Derated above $T_A = +25^\circ\text{C}$ in the proportion of $4\text{mW}/^\circ\text{C}$

Electrical Characteristics: ($T_A = +25^\circ\text{C}$ 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	$f = 10.7\text{MHz}$, $V_{in} = 60\text{dB}\mu\text{V}$	31	34	37	dB
Input Limiting Voltage	$V_{IN(lim)}$	$f = 10.7\text{MHz}$, $V_O = -3\text{dB}$	–	78	–	$\text{dB}\mu\text{V}$
Parallel Input Resistance	r_{ip}	$f = 10.7\text{MHz}$	–	8	–	$\text{k}\Omega$
Parallel Input Capacitance	C_{ip}		–	5	–	pF
Parallel Output Resistance	r_{op}		–	200	–	$\text{k}\Omega$
Parallel Output Capacitance	C_{op}		–	2.5	–	pF

Pin Connection Diagram

