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NTE1474 Integrated Circuit FM IF Amp

Features:

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

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

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

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

Pin Connection Diagram

