



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

NTE1242 Integrated Circuit FM/AM IF Amp, AM Converter

Features:

- Separate AM and FM Circuitry
- Ceramic Filters Can be Used.
- Same AM and FM Detection Output Level

Absolute Maximum Ratings: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

Supply Voltage, V_{CC} 9.6V
 Circuit Voltages, V_{8-7}, V_{15-6} 14.4V
 Supply Current, I_{CC} 40mA
 Power Dissipation ($T_A = +75^\circ\text{C}$), P_D 400mW
 Operating Ambient Temperature Range, T_{opr} -20° to $+75^\circ\text{C}$
 Storage Temperature Range, T_{stg} -55° to $+150^\circ\text{C}$

Electrical Characteristics: ($V_{CC} = 8V, T_A = +25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Total Circuit Current	I_{tot}		15	24	34	mA
Detector Output Voltage AM-IF	V_O	$V_i = 22\text{dB}\mu\text{V}, f = 1\text{MHz}, f_m = 400\text{Hz}, 30\% \text{MOD}$	2.4	6.0	9.5	mV
FM-IF		$V_i = 33\text{dB}\mu\text{V}, f_m = 400\text{Hz}, f_d = 22.5\text{kHz}, f = 10.7\text{MHz}$	3.8	7.0	10.0	mV
Circuit Voltages	V_{3-2}		–	3.0	–	V
	V_{7-6}		–	1.7	–	V
	V_{12-4}	$V_{10} = 1.0V$	–	–	30	mV
		$V_{10} = 1.4V$	–	66	–	mV
	V_{4-8}		–	120	–	mV
	V_{4-9}		–	240	–	mV
V_{15-4}		–	62	–	mV	

Pin Connection Diagram

