

## 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, $T_{opr}$ .....	$-20^\circ$ to $+75^\circ\text{C}$
Storage Temperature Range, $T_{stg}$ .....	$-55^\circ$ 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

