ELECTRONICS, INC.
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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°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°C), P_D 400mW
Operating Ambient Temperature Range, T_{opr} . . . . . –20° to +75°C
Storage Temperature Range, T_{stg} . . . . . –55° to +150°C

Electrical Characteristics: (V_{CC} = 8V, T_A = +25°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 = 22dBμV, f = 1MHz, f_m = 400Hz, 30% MOD	2.4	6.0	9.5	mV
FM–IF		V_i = 33dBμV, f_m = 400Hz, f_d = 22.5kHz, f = 10.7MHz	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