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

NTE1237
Integrated Circuit
AM Radio without Audio Stage

Features:
- Small External Part Count
- Tuning Meter Circuit
- Wide AGC Range

Absolute Maximum Ratings: (T_A = +25°C unless otherwise specified)

Supply Voltage, V_{CC} 18V
Power Dissipation, P_T 500mW
Operating Temperature Range, T_{opr} . . . . . –20° to +70°C
Storage Temperature Range, T_{stg} . . . . . –55° to +125°C

Electrical Characteristics: (V_{CC} = 12V, f = 1MHz unless otherwise specified)

Parameter	Symbol	Test Conditions		Min	Typ	Max	Unit
Maximum Sensitivity	MS	f_M = 400Hz, MOD = 30%, Output=50mV		37.5	40.0	42.5	dB
Signal–to–Noise Ratio	S/N	f_M = 400Hz, MOD = 30%	Input = 40dB/m	8	12	–	dB
			Input = 74dB/m	42	45	–	dB
Total Harmonic Distortion	THD	f_M = 400Hz	MOD = 30%, Input = 74dB/m	–	1.0	2.0	%
			MOD = 80%, Input = 74dB/m	–	1.5	3.0	%
			MOD = 30%, Input =120dB/m	–	2.5	10	%
Detector Voltage	$V_{O(DET)}$	f_M = 400Hz, MOD = 30%, Input = 74dB/m		140	170	230	mW
Tuning Meter Circuit	TM	Input = 74dB/m		50	–	100	%
Quiescent Current	I_Q			–	13	21	mA

Pin Connection Diagram