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

NTE1049
Integrated Circuit
AM Tuner w/RF Amp

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

Supply Voltage, V_{CC} 15V
Supply Current, I_{CC} 40mA
Operating Temperature Range, T_{opt} . . . . . –20° to +75°C
Storage Temperature Range, T_{stg} . . . . . –40° to +125°C

Recommended Operating Conditions:

Supply Voltage, V_{CC} 10V
Supply Current, I_{CC} 20mA

Electrical Characteristics: (T_A = +25°C, V_{CC} = 10V unless otherwise specified)

Parameter	Symbol	Test Conditions		Min	Typ	Max	Unit
Supply Current	I_{CC}			15	20	25	mA
Voltage Gain	A_v	f = 1MHz, R_L = 1kΩ, R_G = 50Ω	R_{B1} = 30kΩ, V_i = 5mV	19	23	26	dB
			R_{B1} = 3.9kΩ, V_i = 10mV	13	16	20	dB
		f_i = 455kHz, 400Hz, 30% MOD, R_G = 50Ω, V_O = 400Hz, R_L = 10kΩ		17	20	26	dB
Output Voltage	V_O	f_i = 455kHz, 400Hz, 30% MOD, R_L = 10kΩ		–	80	–	mV
Total Harmonic Distortion	THD	f_i = 455kHz, 400Hz, 80% MOD, R_L = 10kΩ, V_O ≒ 220mV		–	1.5	–	%
AGC Range	AGC			75	85	–	dB

Pin Connection Diagram