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

NTE1470
Integrated Circuit
Audio Power Amp, 2.5W for Table Top Stereo

Features:
- High Gain 50dB
- Low Distortion, Low Noise
- Wide Range of Operation Voltage.

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

Maximum Supply Voltage, V_{CCmax} 20V
Allowable Power Dissipation, P_{dmax} 2.5W
With Additional Heat Sink 3.0W
Operating Temperature Range, T_{opg} . . . . . –20° to +75°C
Storage Temperature Range, T_{stg} . . . . . –40° to +150°C

Recommended Operating Characteristics: (T_A = +25°C unless otherwise specified)

Recommended Supply Voltage, V_{CC} 14V
Load Resistance, R_L 8Ω

Electrical Characteristics: (T_A = +25°C, V_{CC} = 14V, R_L = 8Ω, f = 1kHz, R_g = 600Ω unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Quiescent Current	I_{CCO}		–	20	–	mA
Voltage Gain	VG	Closed Loop	–	50	–	dB
Output Power	P_O	THD = 10%	2.0	2.5	–	W
Total Harmonic Distortion	THD	P_O = 0.5W	–	0.3	1.0	%
Input Resistance	r_i		–	100k	–	Ω
Output Noise Voltage	V_{NO}	R_g = 10k ohm	–	1	3	mV

Pin Connection Diagram