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

NTE1472
Integrated Circuit
Audio Power Amplifier, 1W
for Tape Recorder

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

Maximum Supply Voltage, V_{CC}max 11V
Supply Current, I_{11} 30mA
Allowable Power Dissipation, $P_D$max 1.2W
(50 x 50 x 1.5mm^3 Al heatsink added) 2.25W
Operating Temperature Range, T_{opr} . . . . . –20° to +70°
Storage Temperature Range, T_{stg} . . . . . –40° to +150°C

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

Supply Voltage, V_{CC} 6V
Load Resistance, R_L . . . . . 4 (3.2) Ω

Electrical Characteristics: (T_A = +25°C, V_{CC} = 6V, R_L = 4Ω (3.2Ω), f = 1kHz, R_G = 600Ω unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Quiescent Current	I_{CCO}		–	15	25	mA
Voltage Gain	VG		–	75	–	dB
Output Power	P_O	R_L = 4Ω, THD = 10%	0.7	1.0	–	W
		R_L = 3.2Ω, THD = 10%	0.8	1.1	–	W
Input Resistance	r_i		12k	20k	–	Ω
Total Harmonic Distortion	THD	P_O = 250mW	–	–	1.5	%
Output Noise Volatge	V_{NO}	R_G = 10kΩ	–	–	2.5	mV
		R_G = 0Ω	–	–	0.8	mV

Pin Connection Diagram