



ELECTRONICS, INC.
 44 FARRAND STREET
 BLOOMFIELD, NJ 07003
 (973) 748-5089
<http://www.nteinc.com>

NTE1224 Integrated Circuit Audio Power Amplifier, 1W

Description:

The NTE1224 is a linear integrated circuit designed for use as a 1 Watt Audio power Amplifier. Its typical application is radio and stereo amplifiers and is driven by a single DC supply or rectified OC.

Absolute Maximum Ratings: ($T_A = +25^\circ\text{C}$, unless otherwise specified)

Supply Voltage, V_2	16V
Circuit Current, I_{CC}	1A
Power Dissipation, P_D	1.55W
Operating Temperature Range, T_{opg}	-20° to $+65^\circ\text{C}$
Storage Temperature Range, T_{stg}	-55° to $+150^\circ\text{C}$

Electrical Characteristics: ($T_A +25^\circ\text{C}$, $V_{CC} = 10\text{V}$, $R_L = 8\Omega$, unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Quiescent Current	I_{CC}	$V_i = 0$	5	12	23	mA
Output Voltage	V_O	$V_i = 10\text{mV}$, $f = 1\text{kHz}$	0.6	0.8	-	V
Output Power	P_O	THD = 10%, $f = 1\text{kHz}$	0.85	1.3	-	W
Total Harmonic Distortion	THD	$P_O = 50\text{mW}$, $f = 1\text{kHz}$	-	0.5	1.5	%
Output Noise Voltage	V_{NO}	$R_g = 51\text{k}\Omega$	-	0.5	1	mV

Pin Connection Diagram

