



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, $T_{opg}$	$-20^\circ$ to $+65^\circ\text{C}$
Storage Temperature Range, $T_{stg}$	$-55^\circ$ 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	$I_{CQ}$	$V_i = 0$	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

