



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

NTE1032
Linear Integrated Circuit,
OTL Audio Power Amp, 1W

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

Supply Voltage, V_{CC}	9V
Output Current, $I_O(\text{peak})$	1A
Power Dissipation (Note 1), P_T	1.2W
Operating Temperature Range (Note 2), T_{opr}	-30° to +70°C
Storage Temperature Range, T_{stg}	-55° to +125°C

Note 1. Value at designated heat sink

Note 2. Value when attached to the heat sink plate ($\theta_1 = 34^\circ\text{C}$) at $P_T = 1.0\text{W}$

Electrical Characteristics: ($T_A = +25^\circ\text{C}$, $V_{CC} = 6\text{V}$, $R_L = 4\Omega$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Quiescent Current	I_Q		-	10	18	mA
Output Gain–Open Loop	$G_{V(OL)}$		-	90	-	dB
Closed Loop Gain	G_V		-	50	-	dB
Total Harmonic Distortion	THD	$P_{out} = 50\text{mW}$	-	0.3	1.0	%
Power Output	P_{out}	THD = 10%	0.8	1.0	-	W
Signal-to-Noise Ratio	S/N	$R_g = 0$, $P_{out} = 50\text{mW}$, with 20kHz L.P.F.	-	66	-	dB
Input Resistance	R_{in}		13	20	-	kΩ

Pin Connection Diagram

