



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

## NTE1126 Integrated Circuit Audio Power Amplifier, 1W

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

Supply Voltage, $V_{CC}$ .....	15V
Circuit Current, $I_{CC}$ .....	500mA
Power Dissipation, $P_D$ .....	1.1W
Power Dissipation, $P_{DF}$ .....	2.0W
Input Voltage, $V_i$ .....	$\pm 0.3V$
Operating Temperature Range, $T_{opr}$ .....	$-20$ to $+75^\circ\text{C}$
Storage Temperature Range, $T_{stg}$ .....	$-40$ to $+125^\circ\text{C}$

**Electrical Characteristics:** ( $T_A = +25^\circ\text{C}$  unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Quiescent Current	$I_{CC}$		8	17	35	mA
Voltage Gain	$G_{VO}$	$f = 1\text{kHz}$	60	72	-	dB
	$G_V$	$f = 1\text{kHz}, R_f = 100\Omega$	37	40	43	dB
Maximum Output Power	$P_{Omax}$	THD = 10%, $f = 1\text{kHz}$	0.7	1.0	-	W
Efficiency	$\eta$		-	50	-	%
Total Harmonic Distortion	THD	$P_o = 0.5W$	-	0.7	-	%
Input Resistance	$R_i$	$G_V = 40\text{dB}, f = 1\text{kHz}$	100	1000	-	$k\Omega$

**Pin Connection Diagram**

