



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

NTE1023 Integrated Circuit Audio power Output, 4W

Features:

- 4W Typical at 13.2V
- High Gain

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

Power Supply Voltage, V_{CC}	16V
Power Supply Current, I_{CC}	1A
Power Dissipation (Note 1), P_D	3.5W
Tab Temperature Range, T_{tab}	-30° to $+125^\circ\text{C}$
Storage Temperature Range, T_{stg}	-55° to $+150^\circ\text{C}$

Note 1. Tab Temperature 90°C (Derating of $10^\circ\text{C}/\text{W}$ at 90°C over)

Electrical Characteristics: ($T_A = +25^\circ\text{C}$, $V_{CC} = 30\text{V}$, $R_S = 1.5\text{k}\Omega$, unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Idle Current	I_{idle}	$V_{CC} = 12.5\text{V}$	-	-	50	mA
Output Power	P_{OUT}	$V_{CC} = 13.2\text{V}$, $R_L = 4\Omega$, $R_F = 68\Omega$, $f = 1\text{kHz}$, $KF = 10\%$	3	4	-	W
Voltage Gain	G_V	$V_{CC} = 12.5\text{V}$, $R_L = 4\Omega$, $R_F = 68\Omega$, $f = 1\text{kHz}$	40.5	43	47.5	dB
Distortion	KF	$V_{CC} = 12.5\text{V}$, $R_L = 4\Omega$, $R_F = 68\Omega$, $f = 1\text{kHz}$, $P_{OUT} = 1\text{W}$	-	-	1.5	%
Output Noise Voltage	V_{NO}	$V_{CC} = 12.5\text{V}$, $R_L = 4\Omega$, $R_F = 68\Omega$	-	-	4.5	mV

Pin Connection Diagram



