



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

NTE1107 Integrated Circuit Audio Power Amplifier, 4.8W

Features:

- 4 Watts 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, P_D	3.5W
Tab Temperature Range, T_{tab}	-30 to +125°C
Storage Temperature Range, T_{stg}	-55 to +150°C

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

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

Pin Connection Diagram
(Front View)

