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## 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)

