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NTE1362 Integrated Circuit Audio Power Amp, 5.5W

Features:

- Low Number of External Components (4)
- Power Output: 5.5W Typ.
- Voltage Gain: 54dB Typ.

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

Supply Voltage, V_{CC}	18V
Peak Supply Voltage ($t \leq 0.2\text{sec}$), $V_{CC(\text{peak})}$	$40V_{p-o}$
Circuit Current, I_{CC}	4.5A
Power Dissipation (with infinite heatsink), P_D	31W
Junction Temperature, T_c	$+150^{\circ}\text{C}$
Derating (with infinite heatsink, $T_A \geq 25^{\circ}\text{C}$), $K\theta$	$250\text{mW}/^{\circ}\text{C}$
Operating Temperature, T_{opr}	-20° to $+75^{\circ}\text{C}$
Storage Temperature Range, T_{stg}	-40° to $+150^{\circ}\text{C}$

Electrical Characteristics: ($T_A = +25^{\circ}\text{C}$, $V_{CC} = 13.2\text{V}$, $R_L = 4\Omega$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Quiescent Circuit Current	I_{CCO}	Quiescent	–	45	100	mA
Voltage Gain	G_V	$P_O = 1\text{W}$, $f = 1\text{kHz}$	50	53.5	55	dB
Total Harmonic Distortion	THD		–	0.4	1.5	%
Maximum Output Power	P_{Omax}	$f = 1\text{kHz}$, THD = 10%	4.8	5.5	–	W
Output Noise Level	N_O	BW = 20Hz to 20kHz, $R_g = 10\text{k}\Omega$	–	1	2.5	mV_{rms}
Input Resistance	R_{IN}	$P_O = 1\text{W}$, $f = 1\text{kHz}$	20	45	–	$\text{k}\Omega$

Pin Connection Diagram

