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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, $T_{opr}$ .....	$-20^\circ$ to $+75^\circ\text{C}$
Storage Temperature Range, $T_{stg}$ .....	$-40^\circ$ 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	$\text{mV}_{rms}$
Input Resistance	$R_{IN}$	$P_O = 1\text{W}$ , $f = 1\text{kHz}$	20	45	-	$\text{k}\Omega$

### Pin Connection Diagram

