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NTE1431 Integrated Circuit Audio Driver

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

Supply Voltage, V_{CC} 15V
Power Dissipation, P_D 550mW
Operating Temperature Range, T_{opr} -25° to $+75^\circ\text{C}$
Storage Temperature Range, T_{stg} -55° to $+125^\circ\text{C}$

Electrical Characteristics: ($T_A = 25^\circ\text{C}$, $V_{CC} = 6\text{V}$, unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Supply Current	I_{CC}	$f = 1\text{kHz}$, $V_{IN} = 0$, $Z_L = 8\text{k}\Omega$	–	1.4	2.5	mA
Open Loop Voltage Gain	G_{VO}	$f = 1\text{kHz}$, $Z_L = 8\text{k}\Omega$, $V_{IN} = 0.5\text{mV}$	56	61	–	dB
Max. Output Voltage	V_{OM}	$f = 1\text{kHz}$, $\text{THD} = 10\%$, $Z_L = 8\text{k}\Omega$	1.1	1.8	–	mW
Total Harmonic Distortion	THD	$f = 1\text{kHz}$, $V_{OUT} = 0.5\text{V}$, $Z_L = 8\text{k}\Omega$	–	1.2	3.0	%
Input Impedance	Z_{IN}	$f = 1\text{kHz}$, $Z_L = 8\text{k}\Omega$	–	2	–	$\text{k}\Omega$

Pin Connection Diagram
(Front View)

