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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: ($T_A = 25^\circ\text{C}$, $V_{CC} = 6V$, 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} | $f = 1\text{kHz}$, THD = 10%, $Z_L = 8\text{k}\Omega$ | 1.1 | 1.8 | - | mV |
| Total Harmonic Distortion | THD | $f = 1\text{kHz}$, $V_{OUT} = 0.5V$, $Z_L = 8\text{k}\Omega$ | - | 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)

