



ELECTRONICS, INC.
 44 FARRAND STREET
 BLOOMFIELD, NJ 07003
 (973) 748-5089

NTE1435 Integrated Circuit Dual Audio Preamp

Description:

The NTE1435 is an integrated circuit in a 9-Lead SIP type package designed for preamp applications incorporating two channels such as car stereo applications. With stabilized power source built-in, this device offers high gain, low distortion, low noise, and high output voltage.

Features:

- High Gain and Low Noise
- High Gain Over a Wide Range of Supply Voltage
- Good Channel Separation

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

Supply Voltage, V_{CC} 18V
 Supply Current, I_{CC} 17mA
 Power Dissipation, P_D 310mW
 Operating Ambient Temperature Range, T_{opr} -30° to $+75^\circ\text{C}$
 Storage Temperature Range, T_{stg} -55° to $+125^\circ\text{C}$

Electrical Characteristics: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|---------------------------------|-----------|---|-----|-----|-----|------------------|
| Total Circuit Current | I_{tot} | $V_i = 0$ | – | 9 | 13 | mA |
| Open Circuit Voltage Gain | G_{VO} | | 85 | 90 | – | dB |
| Output Voltage | V_O | THD = 1% | 1.0 | 1.8 | – | v |
| Total Harmonic Distortion | THD | $V_O = 300\text{mV}$, $G_{VC} = 35\text{dB}$ | – | – | 0.1 | % |
| Noise Voltage Referred to Input | V_{ni} | $R_g = 2.2\text{k}\Omega$, Note 1 | – | 1.2 | 2.0 | μV |
| Input Impedance | Z_i | | 50 | 100 | – | $\text{k}\Omega$ |
| Crosstalk | CT | $f = 10\text{kHz}$ | – | –65 | – | dB |

Note 1. Measured with 15Hz to 30Hz (-3dB) band pass filter.

Pin Connection Diagram
(Front View)

