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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)

