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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°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°C
Storage Temperatuere Range, T_{stg} . . . . . –55° to +125°C

Electrical Characteristics: (T_A = +25°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 = 300mV, G_{VC} = 35dB	–	–	0.1	%
Noise Voltage Refered to Input	V_{ni}	R_g = 2.2kΩ, Note 1	–	1.2	2.0	μV
Input Impedance	Z_i		50	100	–	kΩ
Crosstalk	CT	f = 10kHz	–	–65	–	dB

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

Pin Connection Diagram
(Front View)



