ELECTRONICS, INC.
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NTE1433
Integrated Circuit
Audio Preamp

Description:

The NTE1433 is a linear integrated circuit in a 7–Lead SIP type package designed for use in high voltage preamplification applications.

Features:

- Power Supply with Wide Working Voltage Range (20–42 Volts)
- High Open Loop Gain
- Extremely Low Distortion
- Low Noise
- High Input Impedance and Low Output Impedance
- Low Current Dissipation

Application:

- Stereos Radios & Tape Recorders

Absolute Maximum Ratings:

Supply Voltage, V_{CC} 42V
Supply Current, I_{CC} 5mA
Operating Temperature Range, T_{opr} . . . . . –25° to +75°C
Storage Temperature Range, T_{stg} . . . . . –55° to +125°C

Electrical Charactersitics:

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Open Loop Voltage Gain	G_{VO}		82	90	–	dB
Max Output Voltage	V_{om}	KF = 0.1%, R_{IAA}	7.5	9.0	–	V_{rms}
Supply Current	I_{cc}	V_{OUT} = 0	–	3.5	–	mA
Output Noise Voltage	V_{NO}	R_g = 2.2kΩ, R_{IAA}	–	100	150	μV_{rms}
Input Noise Voltage	V_{NI}	R_g = 2.2k R_{IAA}	–	1.0	1.5	μV_{RMS}
Total Harmonic Distortion	THD	V_{OUT} = 5V_{rms}, R_{IAA}	–	0.03	–	%
Input Impedance	Z_{in}	G_{VC} = 40dB, R_{IAA}	–	130	–	kΩ
Output Impedance	Z_{out}	G_{VC} = 40dB, R_{IAA}	–	12	–	Ω

Pin Connection Diagram
(Front View)