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NTE1462 Integrated Circuit Audio Preamp

Features:

- Low Noise: $V_{NI} = 0.8\mu V_{rms}$ (Typ.)
- High Open Loop Voltage Gain: $G_{VO} = 92dB$ (Typ.)
- Low Distortion: THD = 0.1% (Max.) at $V_{OUT} = 7V_{rms}$, $G_V = 40dB$, $f = 1kHz$

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

Supply Voltage, V_{CC} 42V

Power Dissipation (note 1), P_D 400mW

Operating Ambient Temperature Range, T_{opr} -30° to $+75^\circ C$

Storage Temperature Range, T_{stg} -55° to $+125^\circ C$

Note 1. Derated above $T_A = +25^\circ C$ in the proportion of 4mW/ $^\circ C$.

Electrical Characteristics: ($T_A = +25^\circ C$, $V_{CC} = 35V$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Supply Current	I_{CC}	$V_{IN} = 0$	–	3.5	4.7	mA
Voltage Gain (Open Loop)	G_{VO}	$V_{IN} = -85dBm$, $f = 1kHz$	87	92	–	dB
Max. Output Voltage	V_{OM}	$f = 1kHz$, THD = 0.1%	7.0	9.0	–	V_{rms}
Equivalent Input Noise Voltage	V_{NI}	RIAA Equalizer $R_g = 2k\Omega$, $f = 1kHz$	–	0.8	1.5	μV_{rms}

Pin Connection Diagram

