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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: $G_{VO} = 92\text{dB}$ (Typ.)
- Low Distortion: THD = 0.1% (Max.) at $V_{OUT} = 7V_{rms}$, $G_V = 40\text{dB}$, $f = 1\text{kHz}$

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

Supply Voltage, V_{CC}	42V
Power Dissipation (note 1), P_D	400mW
Operating Ambient Temperature Range, T_{opr}	-30° to +75°C
Storage Temperature Range, T_{stg}	-55° to +125°C

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

Electrical Characteristics: ($T_A = +25^\circ\text{C}$, $V_{CC} = 35\text{V}$ 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}	$V_{IN} = -85\text{dBm}$, $f = 1\text{kHz}$	87	92	-	dB
Max. Output Voltage	V_{OM}	$f = 1\text{kHz}$, THD = 0.1%	7.0	9.0	-	V_{rms}
Equivalent Input Noise Voltage	V_{NI}	RIAA Equalizer $R_g = 2\text{k}\Omega$, $f = 1\text{kHz}$	-	0.8	1.5	μV_{rms}

Pin Connection Diagram

