



ELECTRONICS, INC.
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NTE1470 Integrated Circuit Audio Power Amp, 2.5W for Table Top Stereo

Features:

- High Gain 50dB
- Low Distortion, Low Noise
- Wide Range of Operation Voltage.

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

Maximum Supply Voltage, V_{CCmax}	20V
Allowable Power Dissipation, P_{dmax}	2.5W
With Additional Heat Sink	3.0W
Operating Temperature Range, T_{opg}	-20° to $+75^\circ\text{C}$
Storage Temperature Range, T_{stg}	-40° to $+150^\circ\text{C}$

Recommended Operating Characteristics: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

Recommended Supply Voltage, V_{CC}	14V
Load Resistance, R_L	8Ω

Electrical Characteristics: ($T_A = +25^\circ\text{C}$, $V_{CC} = 14\text{V}$, $R_L = 8\Omega$, $f = 1\text{kHz}$, $R_g = 600\Omega$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Quiescent Current	I_{CCO}		-	20	-	mA
Voltage Gain	VG	Closed Loop	-	50	-	dB
Output Power	P_O	THD = 10%	2.0	2.5	-	W
Total Harmonic Distortion	THD	$P_O = 0.5\text{W}$	-	0.3	1.0	%
Input Resistance	r_i		-	100k	-	Ω
Output Noise Voltage	V_{NO}	$R_g = 10\text{k ohm}$	-	1	3	mV

Pin Connection Diagram

