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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, $T_{opg}$ .....	$-20^\circ$ to $+75^\circ\text{C}$
Storage Temperature Range, $T_{stg}$ .....	$-40^\circ$ 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, $R_L$ .....	$8\Omega$

**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	-	$\Omega$
Output Noise Voltage	$V_{NO}$	$R_g = 10\text{k ohm}$	-	1	3	mV

### Pin Connection Diagram

