



ELECTRONICS, INC.

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NTE1387 Integrated Circuit Dual, Audio Power Amplifier, 2.4W/Ch

Features:

- Output Power: $P_{OUT} = 2.4W/Ch$ (Typ) at $V_{CC} = 14V$, $R_L = 8\Omega$, THD = 10%
- Wide Operating Supply Voltage Range: $V_{CC} = 5.5V$ to $20V$
- Very Few External Components Required
- Built-In Turn-On “POP” Noise Muting Circuit
- Excellent Crosstalk: $CT = -60dB$ (Typ)

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

Operating Supply Voltage, V_{CC}	24V
Output Current (Peak), $I_{O(peak)}$	1.5A
Power Dissipation, P_D	12.5W
Operating Temperature Range, T_{opr}	-20° to $+75^\circ C$
Storage Temperature Range, T_{stg}	-55° to $+150^\circ C$

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Quiescent Current	I_{CCQ}	$V_{CC} = 14V$	–	27	65	mA
		$V_{CC} = 20V$	–	3.3	–	
Output Power	P_{OUT}	THD = 10%	2.0	2.4	–	W
		$R_L = 4\Omega$, THD = 10%	–	4.0	–	
Voltage Gain	G_V		46	48	50	dB
Channel Voltage Gain Tatic	ΔG_V		–	0	1.5	dB
Total Harmonic Distortion	THD	$P_{OUT} = 500mW$	–	0.2	1.2	%
		$P_{OUT} = 1W$, $R_L = 4\Omega$	–	0.4	–	
Output Noise Voltage	V_{NO}	$R_g = 10k\Omega$	–	0.5	1.5	mV
Crosstalk	CT	$R_g = 0$, $P_{OUT} = 1.5W$	–	–60	–45	dB
Input Resistance	R_{IN}	$V_{OUT} = 1V_{rms}$	–	33	–	k Ω
Ripple Rejection	RR	$R_g = 0$, $f = 100Hz$	–	–50	–	dB

Pin Connection Diagram
(Front View)

