



ELECTRONICS, INC.

44 FARRAND STREET  
 BLOOMFIELD, NJ 07003  
 (973) 748-5089  
<http://www.nteinc.com>

## 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°C
Storage Temperature Range, $T_{stg}$	-55° to +150°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	$\Delta G_V$		-	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 $\Omega$
Ripple Rejection	RR	$R_g = 0$ , $f = 100Hz$	-	-50	-	dB

**Pin Connection Diagram**  
(Front View)

