



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

## NTE1219 Integrated Circuit Dual Audio Power Amp, 15 W/Ch

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

Supply Voltage (Pin7 to Pin4 or Pin12),  $V_{CC}$  ..... 56V  
 Available Load Shorting Time ( $V_{CC} = 39\text{V}$ ,  $P_O = 15\text{W}$ ,  $R_L = 8\Omega$ ,  $f = 50\text{Hz}$ ),  $t_s$  ..... 2sec  
 Operating Case Temperature,  $T_C$  .....  $+85^\circ\text{C}$   
 Storage Temperature Range,  $T_{stg}$  .....  $-30^\circ$  to  $+100^\circ\text{C}$

**Recommended Operation Ratings:** ( $T_A = +25^\circ\text{C}$  unless otherwise specified)

Recommended Supply Voltage,  $V_{CC}$  ..... 39V  
 Load Resistance,  $R_L$  .....  $8\Omega$

**Operation Charactersitics:** ( $T_A = +25^\circ\text{C}$ ,  $V_{CC} = 39\text{V}$ ,  $R_L = 8\Omega$ ,  $R_g = 600\Omega$ ,  $V_G = 40\text{dB}$ )

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Quiescent Current	$I_{CCO}$	$V_{CC} = 47\text{V}$	20	60	120	mA
Output Power	$P_O$	$f = 1\text{kHz}$ , THD = 1.0%	15	-	-	W
		$f = 30$ to $20\text{kHz}$ , THD = 1.0%	7.5	-	-	W
Total Harmonic Distortion	THD	$f = 1\text{kHz}$ , $P_O = 0.1\text{W}$	-	-	0.2	%
Frequency Response	f	$P_O = 0.1\text{W}$ , $-3\text{dB}$	20 to 100k			Hz
Input Resistance	$r_i$	$P_O = 0.1\text{W}$	-	110	-	$\text{k}\Omega$
Output Noise Voltage	$V_{NO}$	$V_{CC} = 47\text{V}$ , $R_g = 10\text{k}\Omega$	-	-	0.8	$\text{mV}_{\text{rms}}$

Note 1. These characteristics are tested using a voltage regulator when not noticed.

Note 2. Output Noise Voltage is defined as peak voltage of RMS meter indicating average value and does not include pulse-like noise.

**Pin Connection Diagram**  
(Front View)

