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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° 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 8Ω

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 20kHz , 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	$P_O = 0.1\text{W}$, -3dB	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	mV_{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)

15	Input Rt Ch
14	Feedback
13	GND
12	GND
11	Output Rt Ch
10	Feedback
9	V _{CC}
8	GND
7	V _{CC}
6	Feedback
5	Output Lt Ch
4	GND
3	GND
2	Feedback
1	Input Lt Ch

