



ELECTRONICS, INC.
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NTE1218 Integrated Circuit Module, Hybrid, Dual Audio Power Amp, 7W/Ch

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

Supply Voltage, V_{CCmax}	39V
Operating Junction Temperature, T_J	+150°C
Operating Case Temperature, T_C	+125°C
Storage Temperature Range, T_{stg}	-30° to +125°C
Thermal Resistance, Junction-to-Case, R_{thJC}	7°C/W
Turn-On Time ($V_{CC} = 27V, R_L = 8\Omega, P_O = 7W, f = 50Hz$), t_S	2sec

Recommended Operating Conditions: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

Supply Voltage, V_{CC}	27V
Load Resistance, R_L	8Ω

Electrical Characteristics: ($T_A = +25^\circ\text{C}, V_{CC} = 27V, R_L = 8\Omega, R_g = 600\Omega, V_G = 40\text{dB}$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Idle Current	I_{CCO}	$V_{CC} = 33V$	20	60	120	mA
Power Output	P_O	THD = 1%, $f = 1\text{kHz}$	7.0	–	–	W
		THD = 1%, $f = 40\text{Hz to } 20\text{kHz}$	28	–	–	W
Total Harmonic Distortion	THD	$P_O = 0.1W, f = 1\text{kHz}$	–	–	0.5	%
Frequency Range	f_L, f_H	$P_O = 0.1W, V_G = -3\text{dB}$	40 to 50k			Hz
Input Resistance	r_i	$P_O = 0.1W, f = 1\text{kHz}$	–	110	–	kΩ
Noise Voltage	V_{NO}	$V_{CC} = 33V, R_g = 10\text{k}\Omega$	–	–	0.8	mV _{rms}

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

