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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 ( $V_{CC} = 27V$ , $R_L = 8\Omega$ , $P_O = 7W$ , $f = 50\text{Hz}$ ), $t_S$ .....	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 <sub>rms</sub>

**Pin Connection Diagram**  
(Front View)

15	Input Rt Ch
14	Feedback
13	GND
12	GND
11	Output Rt Ch
10	Feedback
9	V <sub>CC</sub>
8	GND
7	V <sub>CC</sub>
6	Feedback
5	Output Lt Ch
4	GND
3	GND
2	Feedback
1	Input Lt Ch

