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NTE1331 Integrated Circuit Module – Dual, Audio Power Amplifier, 25W/Channel, 2 Power Supplies Required

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

Maximum Supply Voltage, V_{CCmax} $\pm 38\text{V}$
 Operating Case Temperature, T_C $+105^\circ\text{C}$
 Storage Temperature Range, T_{stg} -30° to $+105^\circ\text{C}$
 Allowable Load Shorting Time (In appointed condition), t_s 2sec

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

Recommended Supply Voltage, V_{CC} $\pm 26\text{V}$
 Load Resistance, R_L 8Ω

Electrical Characteristics: ($T_A = +25^\circ\text{C}$, $V_{CC} = \pm 28\text{V}$, $R_L = 8\Omega$, $R_g = 600\Omega$, $V_G = 40\text{dB}$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Quiescent Current	I_{CCO}		–	–	120	mA
Output Power	P_O	THD = 0.08%, $f = 20\text{Hz}$ to 20kHz	25	–	–	W
Total Harmonic Distortion	THD	$P_O = 1\text{W}$, $f = 20\text{Hz}$ to 20kHz	–	–	0.08	%
Frequency Response	f	$P_O = 1\text{W}$, +0, –3dB, $f = 1\text{kHz}$	10 to 100k			Hz
Input Resistance	r_i	$P_O = 1\text{W}$, $f = 1\text{kHz}$	–	32	–	$k\Omega$

Pin Connection Diagram (Front View)

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

