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NTE1398 Integrated Circuit Dual Audio Power Amplifier, 5.8W/Ch

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

Operating Supply Voltage	18V
DC Supply Voltage	26V
Peak Supply Voltage (Note 1)	50V
Output Current (Per Channel)	4A
Power Dissipation (Per Package)	15W
Operating Temperature Range, T_{opr}	-20° to $+70^\circ\text{C}$
Storage Temperature Range, T_{stg}	-55° to $+125^\circ\text{C}$
Junction Temperature, T_J	$+150^\circ\text{C}$

Note 1. Pulse width = 200ms, $T_{rise} \geq 1\text{ms}$

Electrical Characteristics: ($T_A = +25^\circ\text{C}$, $V_{CC} = 13.2\text{V}$, $f = 1\text{kHz}$, $R_L = 4\Omega$, One-Half Operation unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit	
Quiescent Current	I_Q	$V_{in} = 0$	40	80	160	mA	
Input Bias Voltage	V_B	$V_{in} = 0$	–	–	40	mV	
Voltage Gain	G_V	$V_{in} = 2.45\text{mV}$	53	55	57	dB	
Difference of Voltage Gain	ΔG_V	$V_{in} = 2.45\text{mV}$	–	–	± 1.5	dB	
Output Power Per Channel	P_{out}	$R_L = 4\Omega$, THD = 10%	$V_{CC} = 13.2\text{V}$	5.0	5.8	–	W
			$V_{CC} = 14.4\text{V}$	–	7.0	–	W
Total Harmonic Distortion	THD	$P_{out} = 0.5\text{W}$	–	0.15	1.0	%	
Noise Output	WBN	$R_g = 10\text{k}\Omega$, BW = 20Hz to 20kHz	–	1.0	2.0	mV	
Supply Voltage Rejection Ratio	SVR	$R_g = 600\Omega$, $f = 500\text{Hz}$	30	40	–	dB	
Input Resistance	R_{in}	$f = 1\text{kHz}$	–	30	–	$\text{k}\Omega$	
Rolloff Frequency	f_l	$G_V = 3\text{dB}$ from $f = 1\text{kHz}$ Ref	Low	–	40	–	Hz
	f_h		High	–	25	–	kHz
Crosstalk	CT	$f = 500\text{Hz}$, $R_g = 600\Omega$	40	58	–	dB	

Pin Connection Diagram
(Front View)

