

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} = 2.45mV		53	55	57	dB
Difference of Voltage Gain	ΔG _V	V _{in} = 2.45mV		—	—	±1.5	dB
Output Power Per Channel	P _{out}	R _L = 4Ω, THD = 10%	V _{CC} = 13.2V	5.0	5.8	—	W
			V _{CC} = 14.4V	—	7.0	—	W
Total Harmonic Distortion	THD	P _{out} = 0.5W		—	0.15	1.0	%
Noise Output	WBN	R _g = 10kΩ, BW = 20Hz to 20kHz		—	1.0	2.0	mV
Supply Voltage Rejection Ratio	SVR	R _g = 600Ω, f = 500Hz		30	40	—	dB
Input Resistance	R _{in}	f = 1kHz		—	30	—	kΩ
Rolloff Frequency	f _l	G _V = 3dB from f = 1kHz Ref	Low	—	40	—	Hz
	f _h		High	—	25	—	kHz
Crosstalk	CT	f = 500Hz, R _g = 600Ω		40	58	—	dB

Pin Connection Diagram
(Front View)

