

NTE1399 Integrated Circuit Dual, Audio Power Amp, 18W BTL

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

Supply Voltage, V_{CC}	18V
Output Current, $I_{O(\text{Peak})}$	4A
Power Dissipation, P_T	15W
Operating Junction Temperature, T_J	$+150^\circ\text{C}$
Operating Temperature Range, T_{opr}	-20° to $+70^\circ\text{C}$
Storage Temperature Range, T_{stg}	-55° to $+125^\circ\text{C}$
Thermal Resistance, Junction-to-Case, R_{thJC}	3°C/W

Electrical Characteristics: ($V_{CC} = 13.2\text{V}$, $f = 1\text{kHz}$, $R_L = 4\Omega$, $T_A = +25^\circ\text{C}$ 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	$V_{in} = 0$	–	20	40	mV
Voltage Gain	G_V	$V_{in} = -55\text{dBm}$	53	55	57	dB
Output Power	P_O	THD = 10%, $R_L = 4\Omega$	15	18	–	W
		THD = 10%, $R_L = 8\Omega$	–	11	–	W
Total Harmonic Distortion	THD	$P_O = 1.5\text{W}$	–	0.2	1.0	%
Noise Output	V_N	$R_g = 10\text{k}\Omega$, BW = 20Hz to 20kHz	–	1.0	2.0	mV
Supply Voltage Rejection Ratio	SVRR	$f = 500\text{Hz}$	33	44	–	dB
Input Resistance	R_{in}		20	30	40	k Ω

Pin Connection Diagram
(Front View)

