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NTE1058 Integrated Circuit Audio Power Amp, 4.4 Watts

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

Supply Voltage, V_{9-2}	18V
Supply Current, I_{tot}	1.2A
Power Dissipation, P_T	4.5W
Operating Ambient Temperature, T_{opr}	-20° to $+70^\circ\text{C}$
Storage Temperature, T_{stg}	-55° to $+150^\circ\text{C}$

Recommended Operating Characteristics:

Supply Voltage, V_{CC}	13V
Output Power ($R_L = 4\Omega$), P_O	4.4W
Voltage Gain, G_V	45dB

Electrical Characteristics: ($V_{CC} = 13\text{V}$, $T_A = 25^\circ\text{C}$, unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Quiescent Circuit Current	I_{CQ}	$V_{IN} = 0$	10	20	50	mA
Output Voltage	V_O	$f = 1\text{kHz}$, $V_{IN} = 10\text{mV}$, $R_L = 4$	1.25	1.7	2.25	V
Output Power	P_O	$f = 1\text{kHz}$, THD = 10%, $R_L = 4\Omega$	4	4.4	–	W
Total Harmonic Distortion	THD	$f = 1\text{kHz}$, $P_O = 1\text{W}$, $R_L = 4\Omega$	–	0.3	1.5	%
Output Noise Voltage	V_N	$R_g = 10\text{k}\Omega$, $R_L = 4\Omega$	–	1	4.5	mV

Pin Connection Diagram
(Front View)

