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NTE1381 Integrated Circuit Audio Power Amp, 2.1W

Features:

- High Power Output at Low Voltage: $P_O = 2.1W$ Typ (9V, 4Ω)
- Low Quiescent Current

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

Maximum Supply Voltage, V_{CC}	13V
Peak Supply Current, I_{CC}	1.5A
Power Dissipation, P_D	
No Heat Sink	1.2W
With Heat Sink	2.25W
Operating Temperature Range, T_{opr}	-20° to $+70^\circ C$
Storage Temperature Range, T_{stg}	-40° to $+150^\circ C$

Electrical Characteristics: ($T_A = +25^\circ C$, $V_{CC} = 9V$, $R_L = 4\Omega$, $f = 1kHz$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Quiescent Circuit Current	I_{CQ}	$V_i = 0$	-	15	25	mA
Open Loop Voltage Gain	G_{VO}	$V_i = 0.2mV$	-	70	-	dB
Closed Loop Voltage Gain	G_{VC}	$V_i = 5mV$	42	45	48	dB
			0.63	0.89	1.25	V
Output Power	P_O	THD = 10%	1.3	2.1	-	W
		$V_{CC} = 9V$, $R_L = 8\Omega$, THD = 10%	-	1.4	-	W
Total Harmonic Distortion	THD	$V_i = 5mV$	-	0.5	1.5	%
Output Noise Voltage	V_{NO}	$R_g = 10k\Omega$	-	-	3	mV
Input Impedance	Z_i		12	20	-	kΩ

Pin Connection Diagram

