

NTE1704 Integrated Circuit Audio Power Amplifier, 1.2W

Features:

- Incorporating Automatic Operating Point Stabilizer
- Low Noise
- Variable Frequency Characteristics
- Few External Components Required

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

Supply Voltage, V_{CC}	18V
Supply Current, I_{CC}	2A
Power Dissipation ($T_A = +30^\circ\text{C}$), P_D	1.5W
Operating Ambient Temperature Range, T_{opr}	-20° to $+75^\circ\text{C}$
Storage Temperature Range, T_{stg}	-40° to $+150^\circ\text{C}$

Electrical Characteristics: ($T_A = +25^\circ\text{C}$, $V_{CC} = 9\text{V}$, $R_L = 8\Omega$, $f = 1\text{kHz}$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Quiescent Circuit Current	I_{CQ}	$V_i = 0$	10	20	50	mA
Voltage Gain	G_{VC}	$V_i = 5\text{mV}$	43	46	49	dB
Output Power	P_O	THD = 10%	0.8	1.2	—	W
		$V_{CC} = 6\text{V}$, $R_L = 8\Omega$, THD = 10%	—	0.55	—	W
		$V_{CC} = 6\text{V}$, $R_L = 4\Omega$, THD = 10%	—	0.9	—	W
Total Harmonic Distortion	THD	$V_i = 5\text{mV}$	—	0.5	1.5	%
Output Noise Voltage	V_{no}	$R_g = 10\text{k}\Omega$	—	0.5	1.2	mV
Input Impedance	Z_i		—	25	—	$\text{k}\Omega$

Pin Connection Diagram
(Front View)

