

NTE1472 Integrated Circuit Audio Power Amplifier, 1W for Tape Recorder

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

Maximum Supply Voltage, V_{CCmax}	11V
Supply Current, I_{11}	30mA
Allowable Power Dissipation, P_{Dmax}	1.2W
(50 x 50 x 1.5mm ³ Al heatsink added)	2.25W
Operating Temperature Range, T_{opr}	-20° to +70°
Storage Temperature Range, T_{stg}	-40° to +150°C

Recommended Operating Conditions: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

Supply Voltage, V_{CC}	6V
Load Resistance, R_L	4 (3.2) Ω

Electrical Characteristics: ($T_A = +25^\circ\text{C}$, $V_{CC} = 6\text{V}$, $R_L = 4\Omega$ (3.2 Ω), $f = 1\text{kHz}$, $R_G = 600\Omega$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Quiescent Current	I_{CCO}		–	15	25	mA
Voltage Gain	VG		–	75	–	dB
Output Power	P_O	$R_L = 4\Omega$, THD = 10%	0.7	1.0	–	W
		$R_L = 3.2\Omega$, THD = 10%	0.8	1.1	–	W
Input Resistance	r_i		12k	20k	–	Ω
Total Harmonic Distortion	THD	$P_O = 250\text{mW}$	–	–	1.5	%
Output Noise Voltage	V_{NO}	$R_G = 10\text{k}\Omega$	–	–	2.5	mV
		$R_G = 0\Omega$	–	–	0.8	mV

Pin Connection Diagram

