

## 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 <sup>3</sup> 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) $\Omega$

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

