

0. 72W AUDIO POWER AMPLIFIER—YD7368

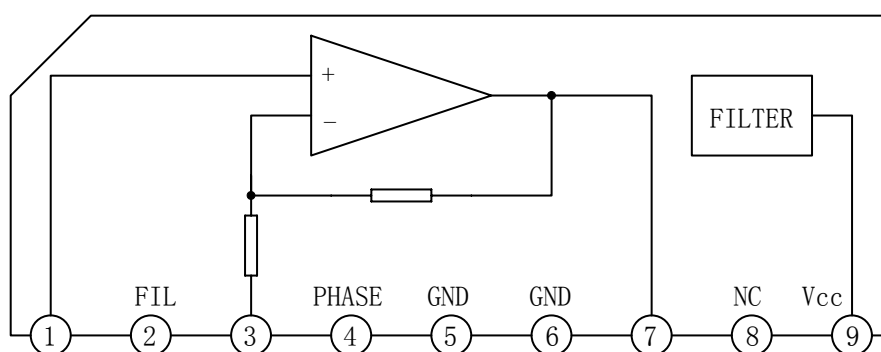
DESCRIPTION

The YD7368 is suitable for audio power amplifier of portable cassette tape recorder and radio.

FEATURES

- *Very few external components (only three capacitors);
- *Low quiescent current;
- *High voltage gain: $G_v=40\text{dB}$;

BLOCK DIAGRAM



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ABSOLUTE MAXIMUM RATINGS ($T_{amb}=25^{\circ}\text{C}$)

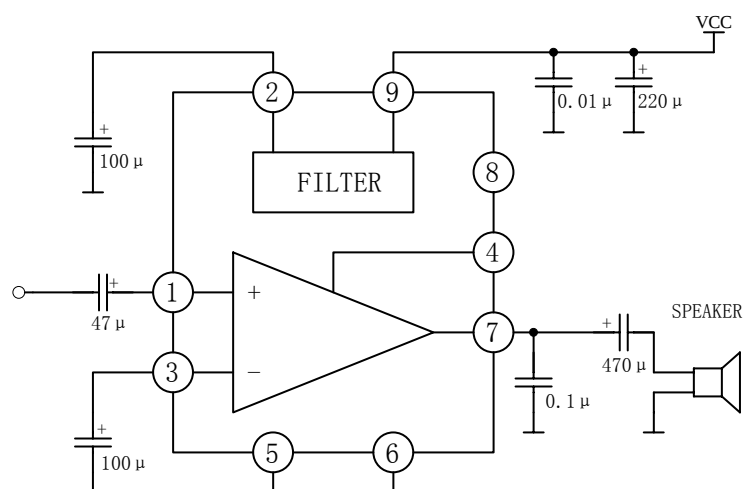
PARAMETER	SYMBOL	VALUE	UNIT
Supply Voltage	V_{CC}	14	V
Output Peak Current	I_{op}	1.5	A
Power dissipation	P_D	900	mW
Operating Temperature	T_{opr}	-20 to +75	$^{\circ}\text{C}$
Storage Temperature	T_{stg}	-55 to 150	$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS

($T_{amb}=25^{\circ}\text{C}$, $V_{CC}=6\text{V}$, $R_L=4\ \Omega$, $R_g=600\ \Omega$, $f=1\text{kHz}$, Unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Quiescent Circuit Current	I_{ccq}	$V_{CC}=3\text{V}$, $V_i=0$		5.5		mA
		$V_{CC}=6\text{V}$, $V_i=0$		6.6		
		$V_{CC}=9\text{V}$, $V_i=0$		7.5		
Output Power	P_o	$V_{CC}=3\text{V}$, $R_L=4\ \Omega$, THD=10%		120		mW
		$V_{CC}=6\text{V}$, $R_L=4\ \Omega$, THD=10%	500	720		
		$V_{CC}=6\text{V}$, $R_L=8\ \Omega$, THD=10%	300	450		
		$V_{CC}=9\text{V}$, $R_L=8\ \Omega$, THD=10%	800	1100		
		$V_{CC}=9\text{V}$, $R_L=16\ \Omega$, THD=10%	450	610		
Total Harmonic Distortion	THD	$P_o=100\text{mW}$		0.3	1.0	%
Voltage Gain	G_v	$V_o=0.5\text{mV}_{rms}$	37	40	43	dB
Output Noise Voltage	V_{NO}	$R_G=10\text{k}\ \Omega$, BPF=20Hz~20kHz		0.2	0.5	mV
Ripple Rejection	RR	$f=100\text{Hz}$, $V_r=0.3\text{V}_{rms}$, without Crip		25		dB
Input Resistance	Z_i			27		$\text{k}\ \Omega$

APPLICATION CIRCUIT



OUTLINE DRAWING

SIP9-P-2.54A

Unit : mm

