

KA7226

查询KA7226供应商

捷多邦 专业PCB打样工厂 24小时加急出货

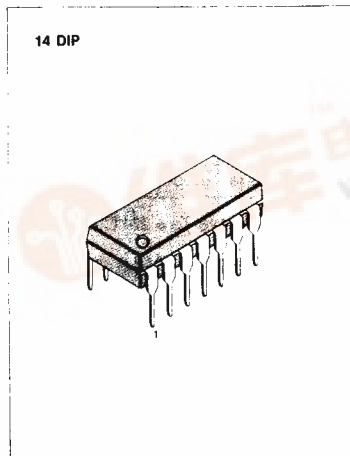
# LINEAR INTEGRATED CIRCUIT

## DUAL EQUALIZER AMPLIFIER WITH ALC

The KA7226 is a monolithic integrated circuit consisting of a dual equalize amplifier with ALC. It is suitable for use in the record/playback amplifier of stereo radio cassettes.

## FEATURES

- Dual equalizer amplifier with ALC circuit
- Built-in buffer amplifier
- Not necessary input coupling capacitor
- Quick stabilization after power on
- High output voltage:  $V_o = 1.7V$  (Typ) at THD = 1%
- Wide operating supply voltage range:  $V_{cc} = 3V \sim 16V$



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## BLOCK DIAGRAM

## ORDERING INFORMATION

Device	Package	Operating Temperature
KA7226	14 DIP	-25°C ~ +75°C

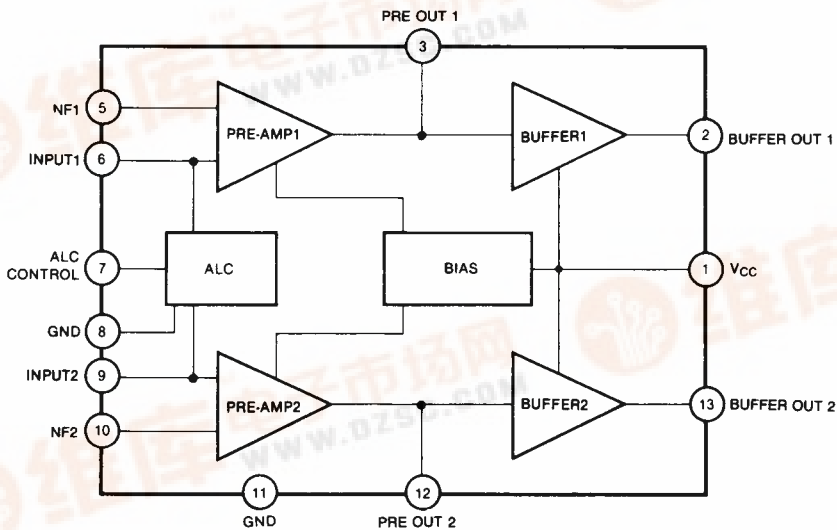


Fig. 1



**ABSOLUTE MAXIMUM RATINGS** ( $T_a = 25^\circ\text{C}$ )

Characteristic	Symbol	Value	Unit
Supply Voltage	$V_{CC}$	16	V
Power Dissipation	$P_D$	600	mW
Operating Temperature	$T_{OPR}$	-25 ~ +75	$^\circ\text{C}$
Storage Temperature	$T_{STG}$	-40 ~ +125	$^\circ\text{C}$

\* : Derated above  $T_a = 25^\circ\text{C}$  in the propotion of  $5\text{mW}/^\circ\text{C}$ .

**ELECTRICAL CHARACTERISTICS**

( $T_a = 25^\circ\text{C}$ ,  $V_{CC} = 5\text{V}$ ,  $f = 1\text{KHz}$ , unless otherwise specified)

Characteristic	Symbol	Test Conditions	Min	Typ	Max	Unit
Quiescent Circuit Current	$I_{CCQ}$	$V_i = 0$	6	10	15	mA
ALC Range	$\Delta V_{ALC}$	$V_i = -60\text{dBm}$	35	40		dB
ALC Voltage	$V_{O(ALC)}$	$V_i = -20\text{dBm}$	-3	-1	1	dBm
ALC Distortion	$\text{THD}_{ALC}$	$V_i = -20\text{dBm}$		0.6	2.0	%
ALC Balance	$\text{CB}_{ALC}$	$V_i = -20\text{dBm}$		0	2	dB
Output Voltage	$V_O$	$\text{THD} = 1\%$	1.3	1.7		V
Cross Talk	CT	$R_G = 2.2\text{K}\Omega$ $V_O = 0\text{dBm}$	40	60		dB
Open Loop Voltage Gain	$G_{VO}$	$V_i = -80\text{dBm}$	67	75		dB
Equivalent Input Noise Voltage	$V_{NI}$	$R_G = 2.2\text{K}\Omega$ ,		1.3	2.7	$\mu\text{V}$

TEST CIRCUIT

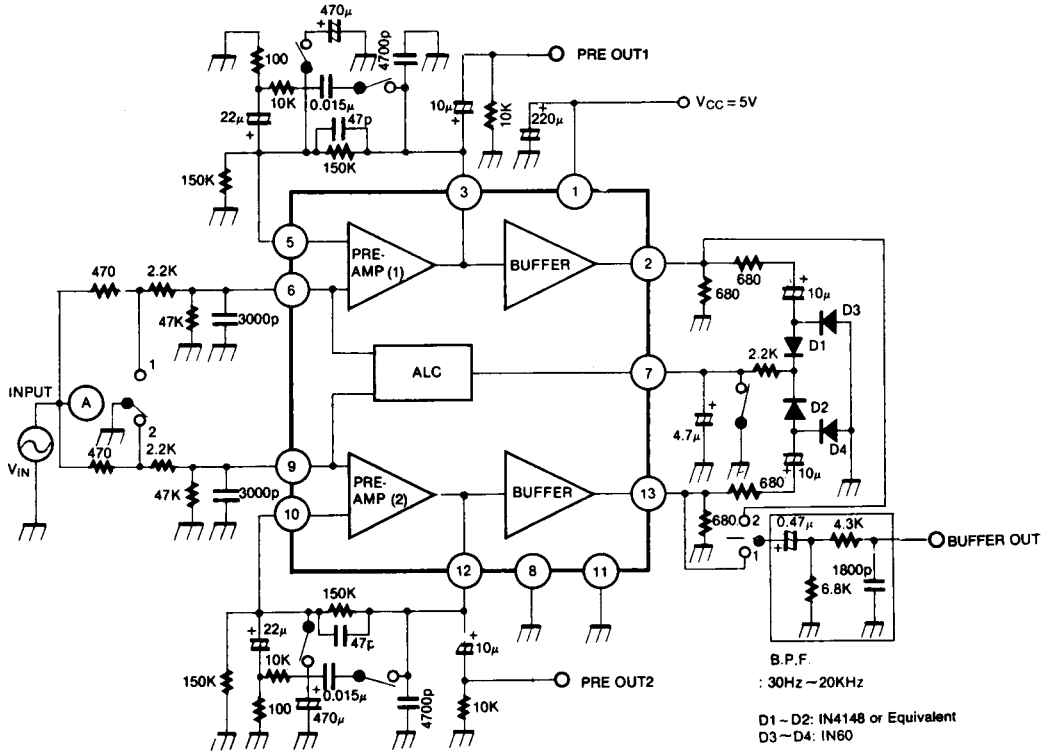
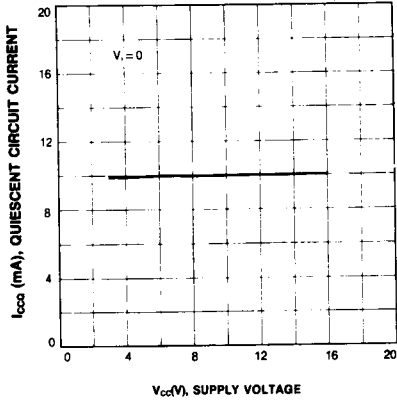
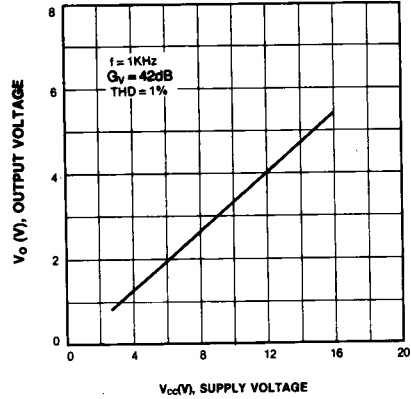


Fig. 2

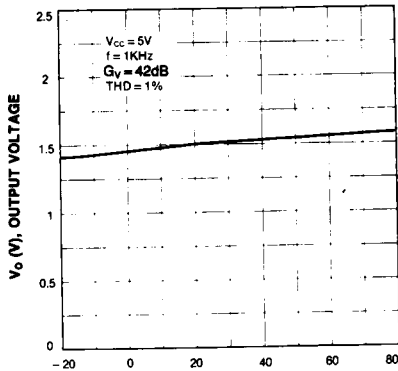
QUIESCENT CIRCUIT CURRENT-SUPPLY VOLTAGE



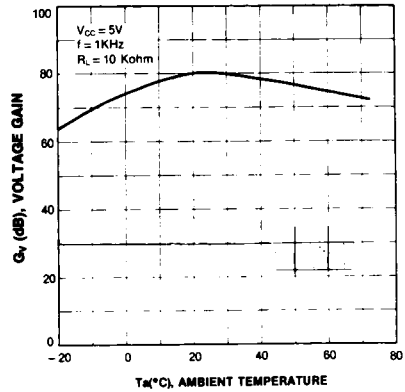
OUTPUT VOLTAGE-SUPPLY VOLTAGE



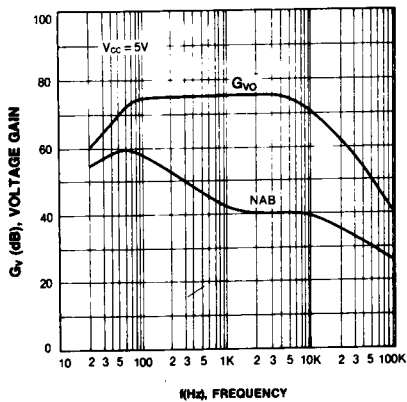
OUTPUT VOLTAGE-AMBIENT TEMPERATURE



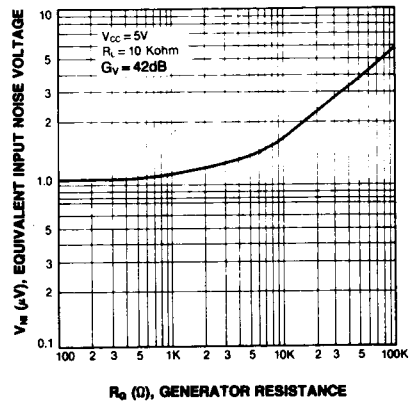
VOLTAGE GAIN-AMBIENT TEMPERATURE



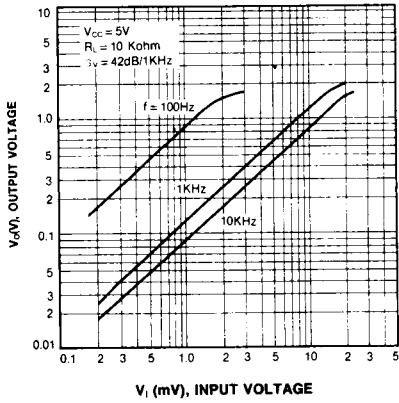
VOLTAGE GAIN-FREQUENCY



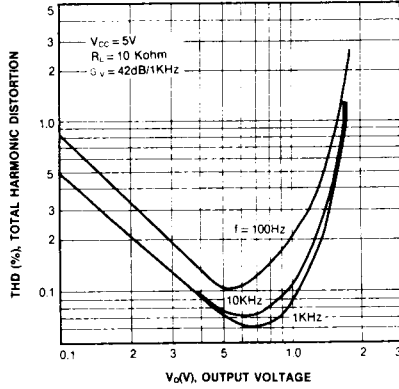
EQUIVALENT INPUT NOISE VOLTAGE-GENERATOR RESISTANCE



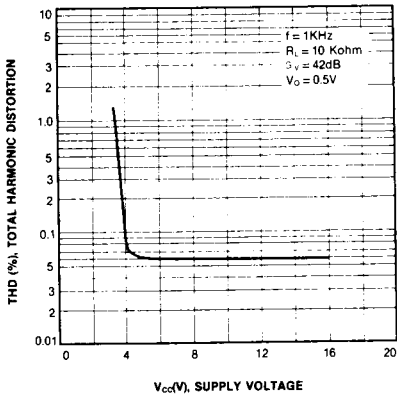
OUTPUT VOLTAGE-INPUT VOLTAGE



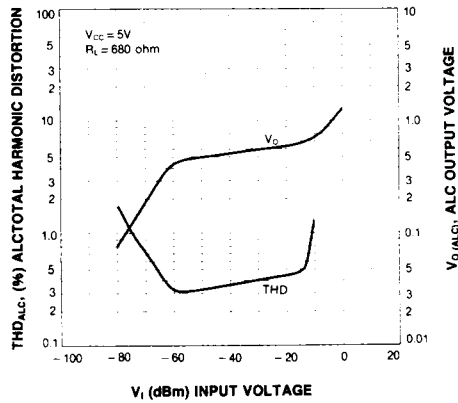
TOTAL HARMONIC DISTORTION-OUTPUT VOLTAGE



TOTAL HARMONIC DISTORTION-SUPPLY VOLTAGE



ALC OUTPUT VOLTAGE ALC TOTAL HARMONIC DISTORTION-INPUT VOLTAGE



## APPLICATION CIRCUIT

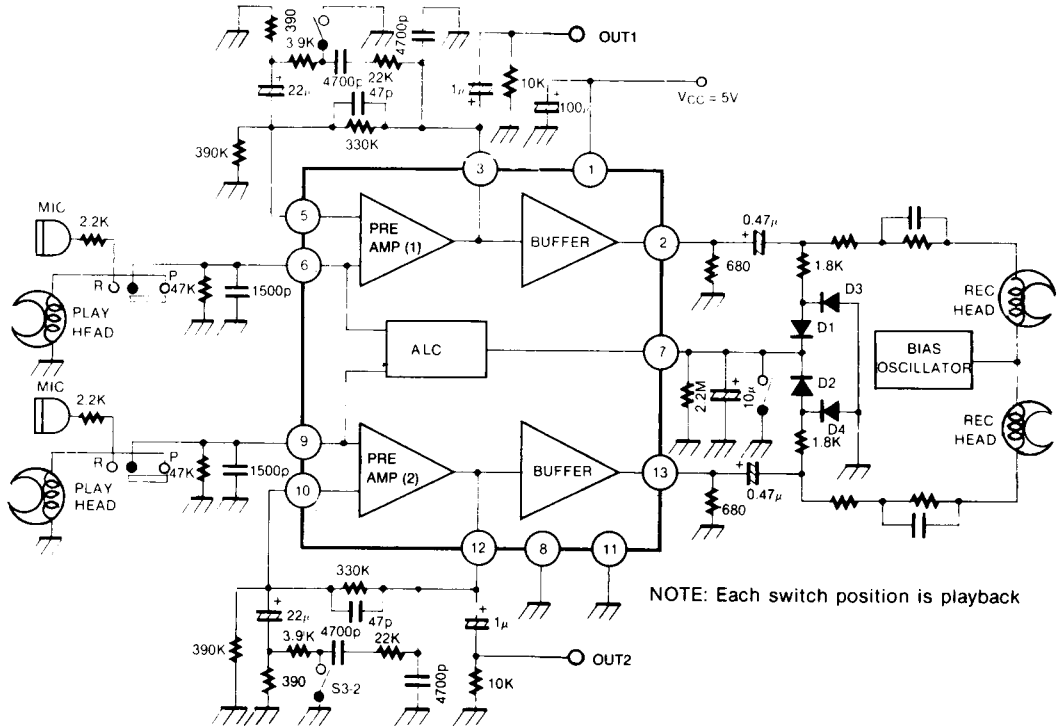


Fig. 3

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