

BIPOLAR LINEAR INTEGRATED CIRCUIT SILICON MONOLITHIC

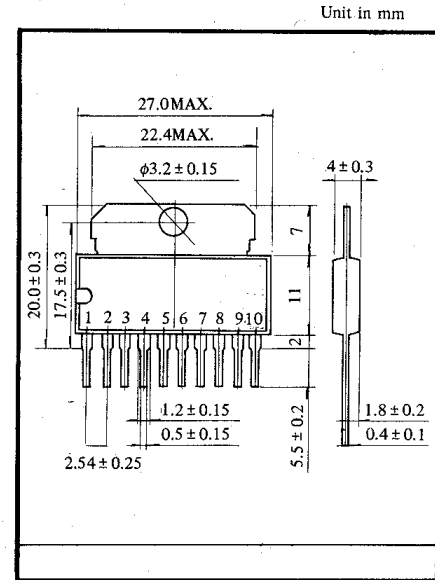
KIA 7230P

APPLICATION

- Dual Audio Power Amplifier

FEATURES

- Output Power : $P_{OUT}=2.4W/CH$ (Typ.)
at $V_{CC}=14V$, $R_L=8\Omega$, THD=10%
- Very Few External Parts (Require 7 pcs capacitor)
- Wide Operating Supply Voltage Range : $V_{CC}=5.5\sim 20V$
- Built in Turn-on "pop" Noise Muting Circuit.
- Excellent Cross Talk : C.T = -50dB (Typ.)



■ MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Supply Voltage	V_{CC}	24	V
Output Current (Peak)	$I_{O(PEAK)}$	1.5	A
Power Dissipation	P_D	12.5	W

CHARACTERISTIC	SYMBOL	RATING	UNIT
Operating Temperature	T_{OPR}	-20~75	°C
Storage Temperature	T_{STG}	-55~150	°C

■ ELECTRICAL CHARACTERISTICS

(Unless otherwise specified, $V_{CC}=14V$, $R_L=8\Omega$, $f=1kHz$, $R_g=600\Omega$, $T_a=25^\circ C$)

CHARACTERISTIC	SYMBOL	TEST CIR-CUIT	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Quiescent Current	I_{CCQ}	-	$V_{CC}=14V$	-	27	55	mA
			$V_{CC}=20V$	-	33	-	
Output Power	P_{OUT}	-	THD=10%	2.0	2.4	-	W
			$R_L=4\Omega$, THD=10%	-	4.0	-	
Voltage Gain	G_V	-	-	46	48	50	dB
Channel Voltage Gain Ratio	ΔG_V	-	-	-	0	1.5	dB
Total Harmonic Distortion	THD	-	$P_o=500mW$	-	0.2	1.2	%
			$R_L=4\Omega$, $P_o=1W$	-	0.4	-	
Output Noise Voltage	V_{NO}	-	$R_g=10k\Omega$	-	0.5	1.5	mV_{RMS}
Cross Talk	C.T	-	$R_g=0$, $P_o=1.5W$	-	-50	-45	dB
Input Resistance	R_{IN}	-	$V_{OUT}=1V_{RMS}$	-	33	-	k Ω
Ripple Rejection	R.R	-	$R_g=0$, $f=100Hz$	-	-50	-	dB