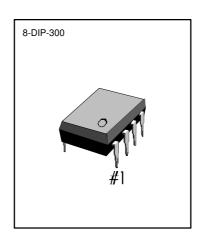
INTRODUCTION

The KA2201 is a monolithic integrated audio amplifier. It is designed for audio frequency class B amplifier.

FEATURES

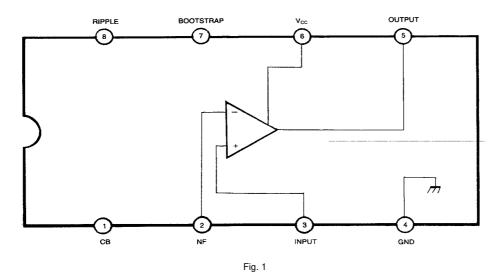
- Wide operating supply voltage: $V_{CC} = 3V \sim 14V$
- Medium output power.
 - P_O =1.2W at V_{CC} =9V, R_L =8 Ω , THD = 10%.
- Low quiescent circuit current (I_{CCQ} = 4mA: Typ).
- Good ripple rejection.
- Minimum number of external parts required.



ORDERING INFORMATION

Device	Package	Operating Temperature
KA2201	8-DIP-300	-20°C ~ + 70°C

BLOCK DIAGRAM



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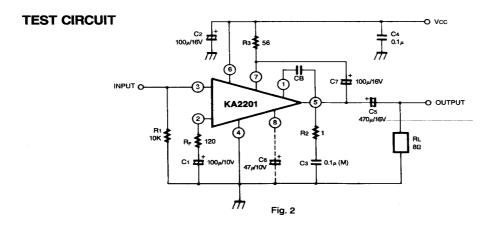
ABSOLUTE MAXIMUM RATINGS

Characteristic	Symbol	value	Unit
Supply Voltage	V _{CC}	16	V
Output Peak Current	I _{PK}	1.5	Α
Power Dissipation	P _D	1.25	W
Operating Temperature	T _{OPR}	- 20 ~ + 70	°C
Storage Temperature	T _{STG}	- 40 ~ + 150	°C

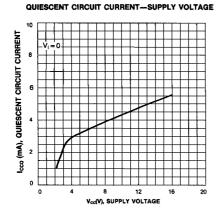
ELECTRICAL CHARACTERISTICS

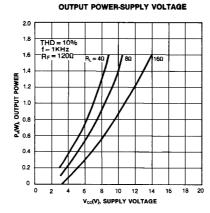
 $(Ta=25^{\circ}C,\,V_{CC}=9V,\,f=1KHz,\,R_{G}=600\Omega,\,R_{F}=120\Omega,\,R_{L}=8\Omega,\,unless\,\,otherwise\,\,specified)$

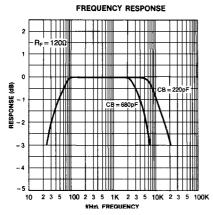
Characteristic	Symbol	Test Conditions	Min	Тур	Max	Unit
Quiescent Circuit Current	I _{CCQ}	$V_1 = 0$		4	12	mA
Output Power	Po	$\begin{split} &V_{CC} = 9V, R_L = 4\Omega, THD = 10\% \\ &V_{CC} = 9V, R_L = 8\Omega, THD = 10\% \\ &V_{CC} = 6V, R_L = 4\Omega, THD = 10\% \\ &V_{CC} = 6V, R_L = 8\Omega, THD = 10\% \\ &V_{CC} = 12V, R_I = 8\Omega, THD = 10\% \end{split}$	0.9	1.6 1.2 0.75 0.5		w
Total Harmonic Distortion	THD	P _O = 500mW		0.3	1.0	%
Open Loop Voltage Gain	G _{VO}	$R_F = 0$		75		dB
Closed Loop Voltage Gain	G _{VC}	$R_F = 120\Omega$	33	36	39	dB
Input Resistance	Rı			5		MΩ
Output Noise Voltage	V _{NO}	$R_G = 10K\Omega$ BW (-3dB) = 50Hz~20KHz		0.3	1.0	mV

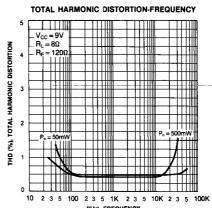


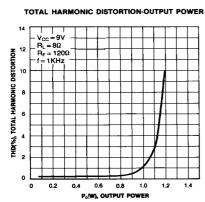


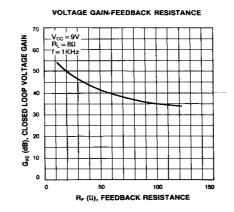




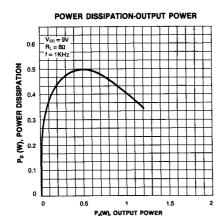


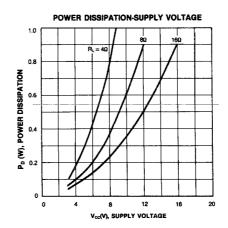














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