

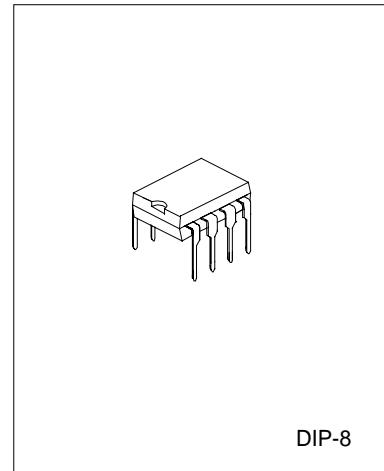
## DUAL LOW VOLTAGE POWER AMPLIFIER

### DESCRIPTION

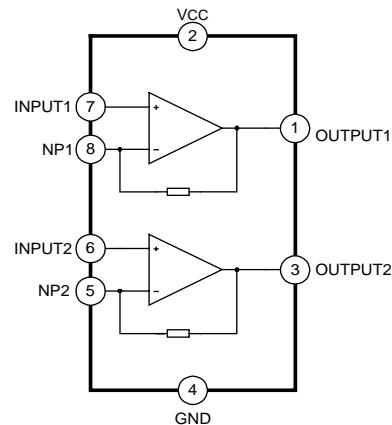
The KA2209 is a monolithic integrated audio amplifier in a 8-Pin plastic Dual in line package. It is designed for portable cassette players and radios.

### FEATURES

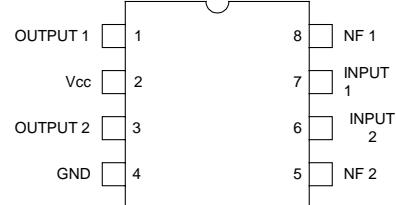
- \*Wide operating supply voltage:Vcc=1.8V-9V
- \*Low crossover distortion
- \*Low quiescent circuit current
- \*bridge/stereo configuration



### BLOCK DIAGRAM



### PIN CONFIGURATION



### ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

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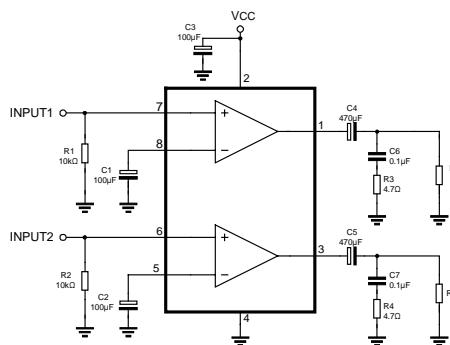
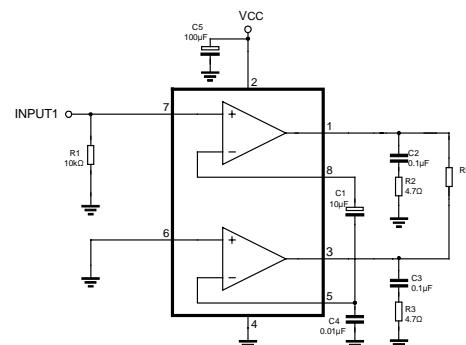
Characteristic	Symbol	Value	Unit
Supply Voltage	V <sub>CC</sub>	11	V
Output Peak Current	I <sub>O(peak)</sub>	1	A
Power Dissipation	P <sub>D</sub>	at T <sub>amb</sub> =50°C 1.0 at T <sub>case</sub> =50°C 1.4	W
Operating Temperature	T <sub>opr</sub>	-20~+70	°C
Storage Temperature	T <sub>stg</sub>	-40~+150	°C

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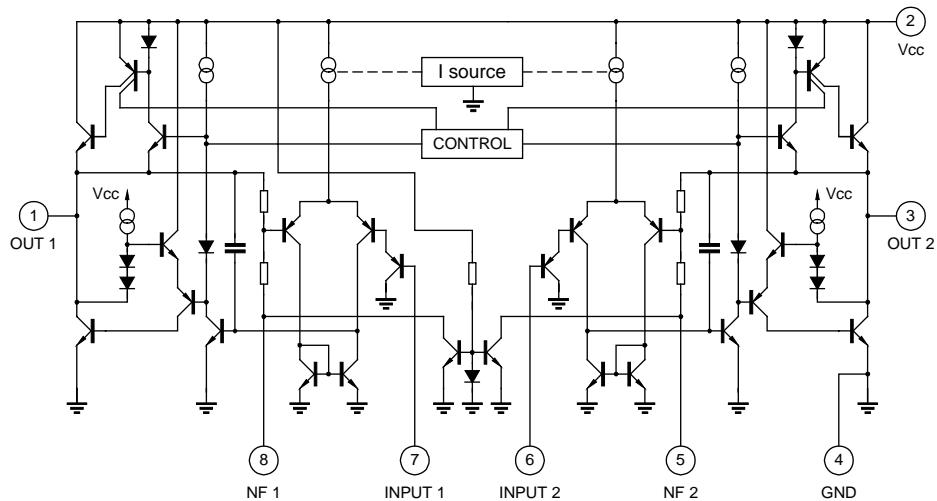
**ELECTRICAL CHARACTERISTICS**

(Ta=25°C, Vcc=6V, f=1kHz, unless otherwise specified)

Characteristic	Symbol	Test Conditions	Min	Typ	Max	Units
Operating Supply Voltage	Vcc		1.8	9		V
Quiescent Circuit Current	Icc	Vi=0		9		mA
Closed Loop Voltage Gain	Av	Stereo		40		dB
Closed Loop Voltage Gain	Av	Bridge		40		dB
Channel Balance	CB	Stereo	-1	0	1	dB
Output Power	Po	Stereo, Vcc=6V, RL=4Ω, THD=10%	0.4	0.65		W
Output Power	Po	Stereo, Vcc=3V, RL=4Ω, THD=10%		0.11		W
Output Power	Po	Bridge, Vcc=6V, RL=4Ω, THD=10%	0.9	1.35		W
Output Power	Po	Bridge, Vcc=3V, RL=4Ω, THD=10%		0.35		W
Total Harmonic Distortion	THD	Stereo, RL=8Ω, Po=0.2W		0.5		%
Total Harmonic Distortion	THD	Bridge, RL=8Ω, Po=0.5W		0.5		%
Ripple Rejection	RR	Stereo, f=100Hz, C3=100μF	24	30		dB
Output Noise Voltage	Vno	Stereo, BW(-3dB)=20Hz~20kHz		0.5	2.0	mV
Cross Talk	CT	Stereo, f=1kHz		50		dB
Input Resistance	Ri		100			kΩ

**TEST CIRCUIT 1:STEREO****TEST CIRCUIT 2:BRIDGE**

## SCHEMATIC DIAGRAM



## TYPICAL PERFORMANCE CHARACTERISTICS

