

Features

- Supply voltage range: 2.5 V to 5.5 V
- Support single-ended or differential analog input
- Low static operation current
- Low shut-down current
- Short power-on transient time
- Internal pull-low resistor on shut-down pins
- Short-circuit protection
- Over-temperature protection
- Loudspeaker power within 10% THD+N
 - 1.66W/ch into 8Ω loudspeaker
 - 2.70W/ch into 4Ω loudspeaker
- Loudspeaker efficiency
 - 90% @ 8Ω, THD+N=10%
 - 85% @ 4Ω, THD+N=10%
- WCSP-9, TDFN8 and MSOP8 package
- Integrated de-pop circuitry
- Internal generated 450kHz switching frequency

Applications

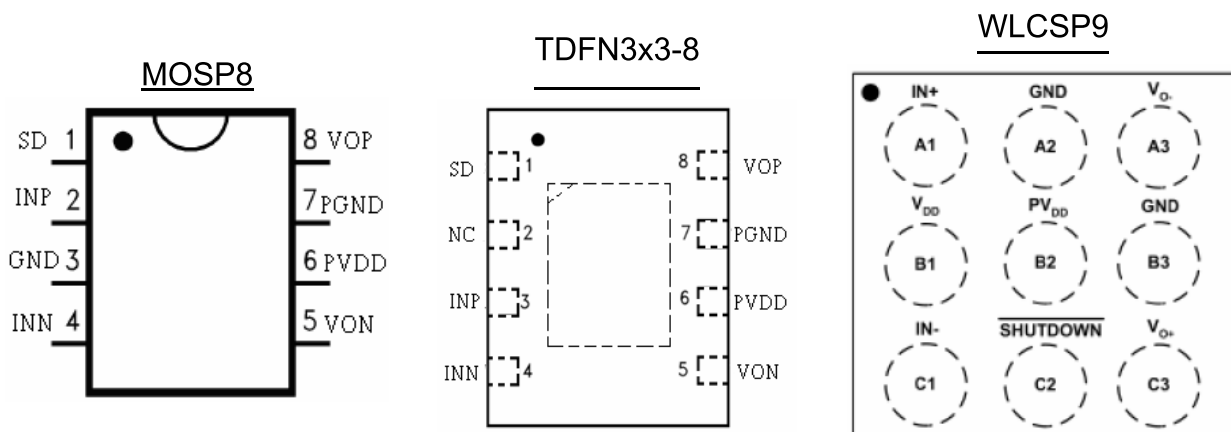
- Monitor audio
- PDA
- Portable multimedia devices
- Notebook computer
- Mobile phone

Description

The AS9910 is a mono, filter-less class-D audio amplifier. Operating with 5.0V loudspeaker driver supply, it can deliver 2.7W output power into 4 Ω loudspeaker within 10% THD+N or 2.2W at 1% THD+N.

The AS9910 is a mono audio amplifier with high efficiency and suitable for the notebook computer, and portable multimedia device

Pin Assignments



Pin Description

NAME	PIN			TYP	DESCRIPTION
	MSOP8	TDFN3x3-8	WLSCSP9		
SD	1	1	C2	I	Shutdown AS9910 (Low active logic)
INP	2	3	A1	I	Positive differential input
GND	3	7	B3	G	GND
INN	4	4	C1	I	Negative differential input
VON	5	5	A3	O	Negative output
PVDD	6	6	B2	P	Power supply
PGND	7	7	A2	G	Power ground
VOP	8	8	C3	O	Positive output