

High power, 1.8V, no pop noise, filter less Class D amplifier ideal for battery operation

- ✓ Just the right output power for portable devices
Output Power: 3W BTL ($R_L=4\Omega$)
- ✓ Highly suitable for battery powered devices
Operates from 1.8V power supply
- ✓ No unpleasant noise while switching on/off
Built-in Pop noise reduction

■ Why does the above matters?

The **NJU8759/A** is an analog signal input monaural filter less 3W class-D power amplifier with a single supply. Operating voltage range is from 1.8V to 5.5V. It is highly suitable for widely popular mobile devices such as Bluetooth speakers where using in the house such as a kitchen, a kids room or even a living room. The built-in pop noise reduction reduces the unpleasant disturbing sound whenever the amplifier is switched on/off. It won't disturb user's sound experience. In shutdown mode the current consumption is less than $1\mu\text{A}$, heavily maximizing the battery life. The output terminal is set to high impedance and can be used for loud speaker diagnostics. System cost is optimized by the LC filter less output design.

■ Features ($V^+=5\text{V typ.}$)

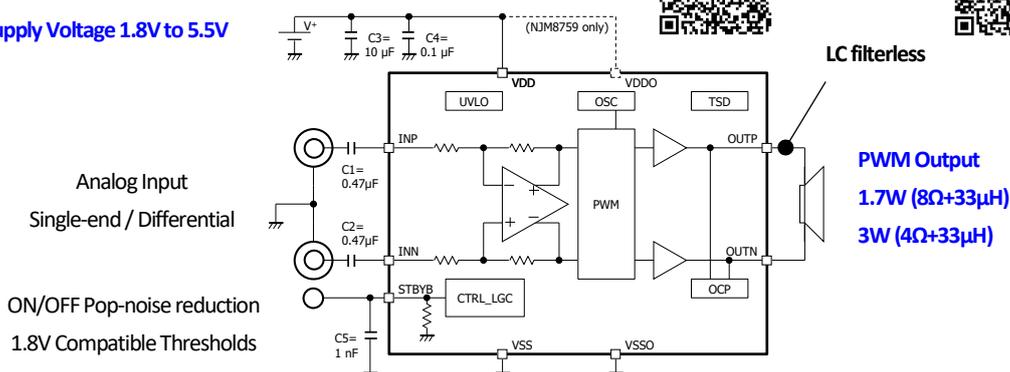
- ▶ High Power (THD+N=10%)
 - $R_L=8\Omega+33\mu\text{H}$ 1.7W
 - $R_L=4\Omega+33\mu\text{H}$ 3.0W
- ▶ Supply voltage 1.8V to 5.5V
- ▶ Built-in Pop noise reduction (Turn on/off)
- ▶ Output LC Filterless Architecture
- ▶ Protection - Short-Circuit, Thermal Shut Down
- Under Voltage Lock Out (UVLO)
- ▶ Supply Current ($V^+=3.6\text{V}$) 2.7mA
- Standby Current $1\mu\text{A max.}$
- ▶ Output terminal is high impedance during shutdown
- ▶ Package: NJU8759 WLCSP9 (1.45mmx1.45mm)
NJU8759A HSOP8

▶ [NJU8759 datasheet Link](#)

▶ [NJU8759A datasheet Link](#)



Supply Voltage 1.8V to 5.5V



MONAURAL POWER AMPLIFIER VARIATION

Product name	NJU8759/A	NJU7089	NJU72060	NJU72065
Architecture	Class-D	Class-AB	Class-AB	Class-AB with EVR
Output Power	3W ($R_L=4\Omega$)	1.2W ($R_L=8\Omega$)	0.5W ($R_L=8\Omega$)	1.2W ($R_L=8\Omega$)
Supply Voltage	1.8V to 5.5V	1.8V to 5.5V	2.7V to 5.5V	2.7V to 5.5V

* All information, specifications and product descriptions in this document are subject to change at any time, without prior notice.
* Contact your local NJR office or your distributor to obtain the latest specifications before placing your product order.

