

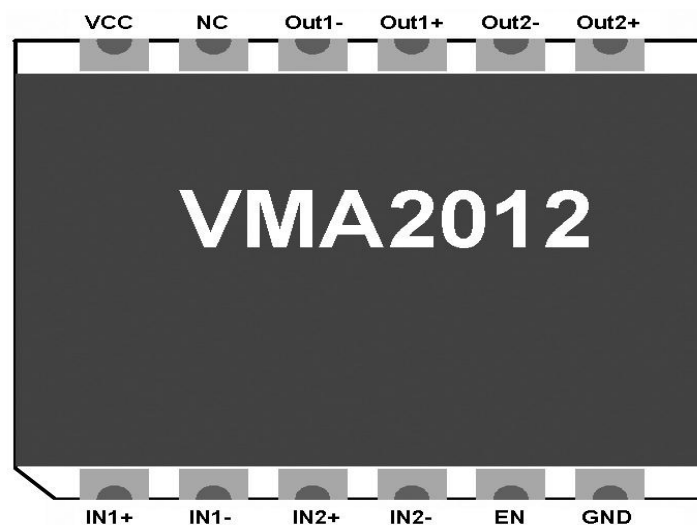
## General description

VMA2012 is a compact, low power, high efficiency 3Wx2 stereo class D audio amplifier. It can drive 2 8Ω speaker up to 3W when supply voltage is 5.5V. The THD+N is only 0.2% when output power is 1.5W. Low power, small size and high efficiency makes VMA2012 a ideal choice for applications where space and power is limited.

## 1. Applications

- Desktop audio
- Portable audio
- Radio
- Embedded notebook audio
- Home entertainment
- Accessories for MP3 player

## 2. Pinout



### Pin Description

Pin No.	Name	Function Description
1	IN1+	Channel 1 input positive
2	IN1-	Channel 1 input negative
3	IN2+	Channel 2 input positive
4	IN2-	Channel 2 input negative
5	EN	Chip Enable, active high
6	GND	Power Ground
7	Out2+	Output 2 Positive
8	Out2-	Output 2 Negative

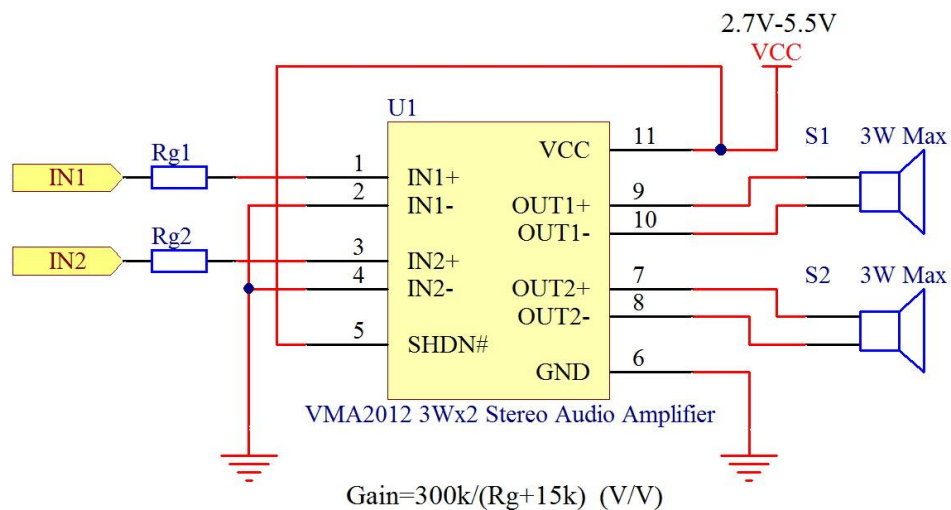
# VMA2012-2x3W Class D Audio Amplifier

9	Out1+	Output 1 Positive
10	Out1-	Output 2 Negative
11	NC	
12	VCC	Power Supply 2.7-5.5V

## 3. Electrical Characteristics

Parameters	Value
Supply Voltage	2.7V to 5.5V
Power	3Wx2(5.5V, 8Ohm, 10%THD)
THD+N	0.2%
Efficiency	87% max
Idle Current	10uA

## 4. Reference Design



## 5. Footprint and dimensions

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