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## Rasbee PAM8403 5V

# RASBEE PAM8403 Mini DC 5V Digital Audio Amplifier Board

MODEL: PAM8403 5V

## Introduction

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This instruction manual provides essential information for the proper setup, operation, and maintenance of your RASBEE PAM8403 Mini DC 5V Digital Audio Amplifier Board. Please read this manual thoroughly before use to ensure optimal performance and safety.

## Safety Information

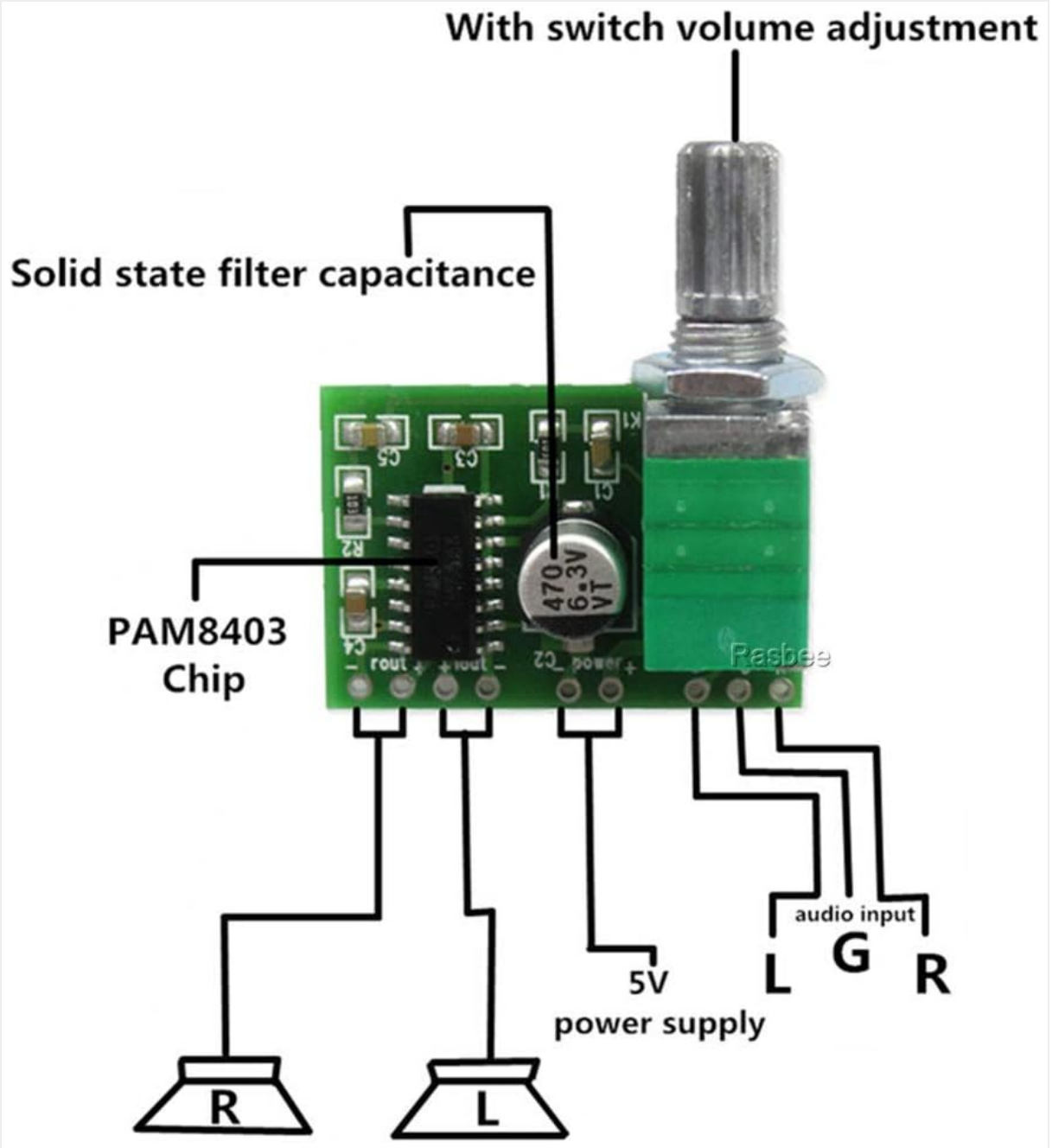
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- The operating voltage for this amplifier board is DC 5V. **Do not exceed 5.5V**, as this may cause permanent damage to the device.
- Ensure all circuit connections are correct and secure before applying power. Incorrect wiring can lead to product malfunction or damage.
- Avoid short-circuiting the output terminals.
- Keep the board away from moisture, dust, and extreme temperatures.

## Product Overview

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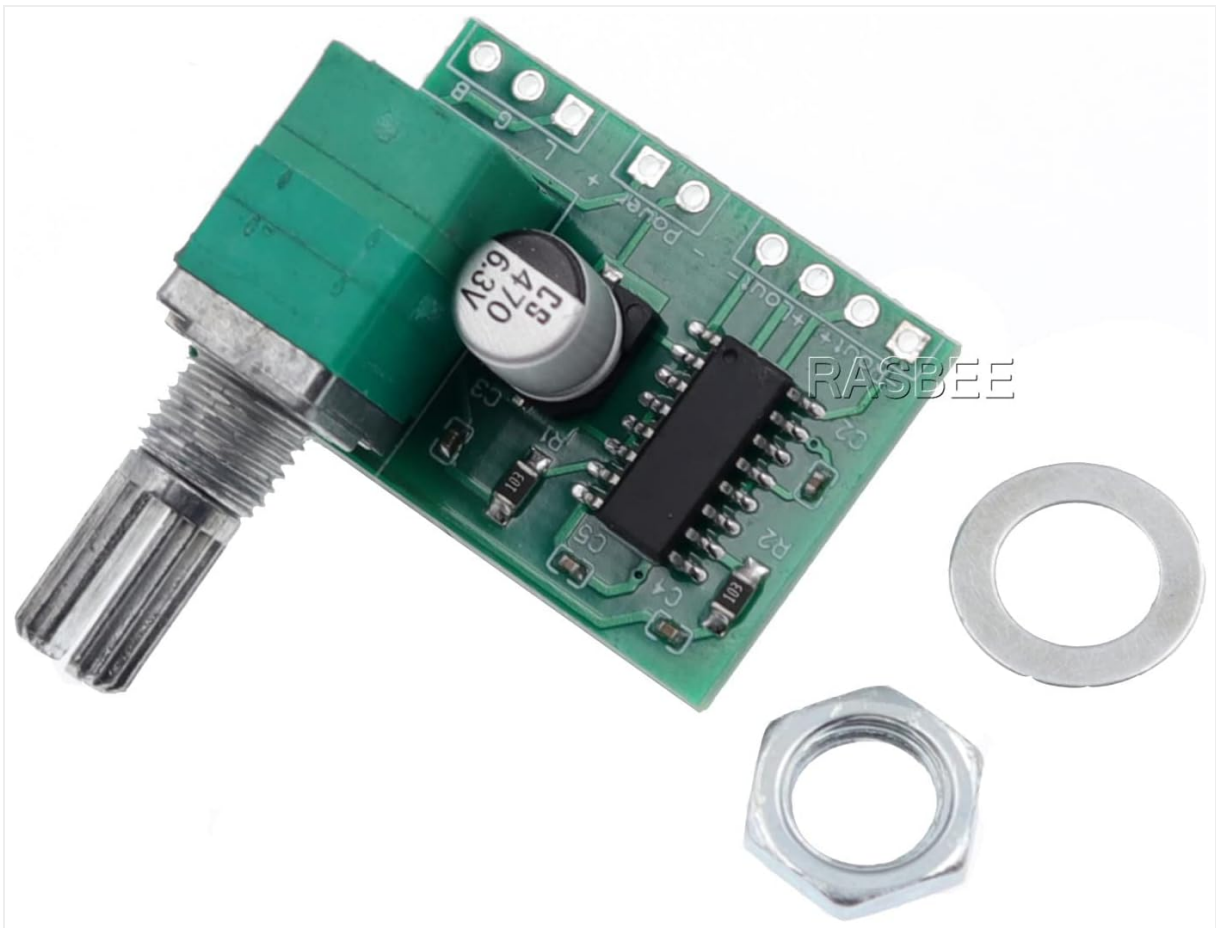
The RASBEE PAM8403 Mini Digital Audio Amplifier Board is a compact, high-efficiency Class-D amplifier capable of delivering 3W + 3W stereo output. It features an integrated potentiometer for volume control and power switching, making it ideal for portable audio projects and small speaker systems.



A clear top-down view of the compact PAM8403 digital amplifier board, highlighting its small form factor and main components.



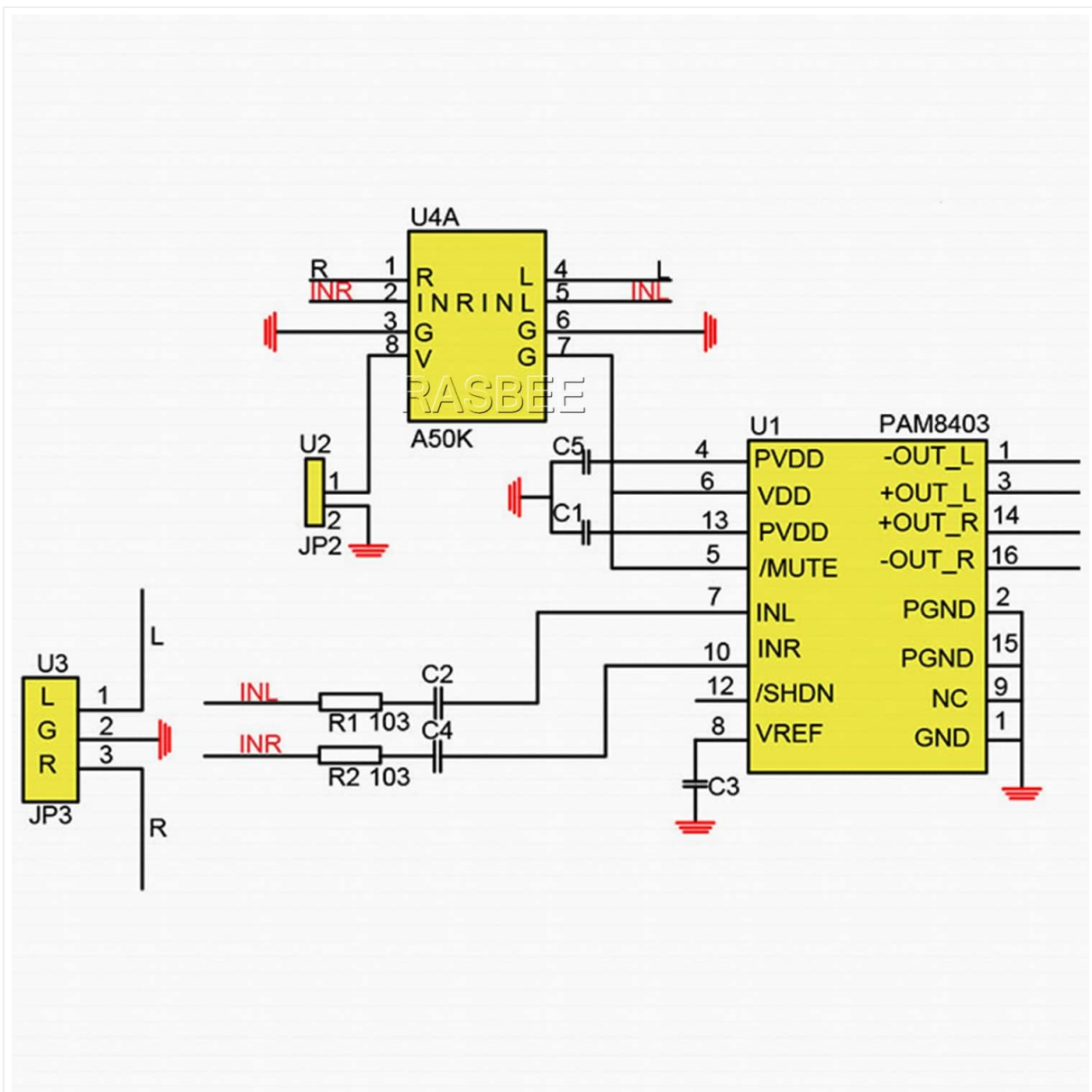
An angled perspective of the PAM8403 digital amplifier board, showcasing the volume potentiometer and the main chip.



This image shows the PAM8403 digital amplifier board alongside a mounting nut and washer, indicating that these accessories are included for installation.

## Specifications

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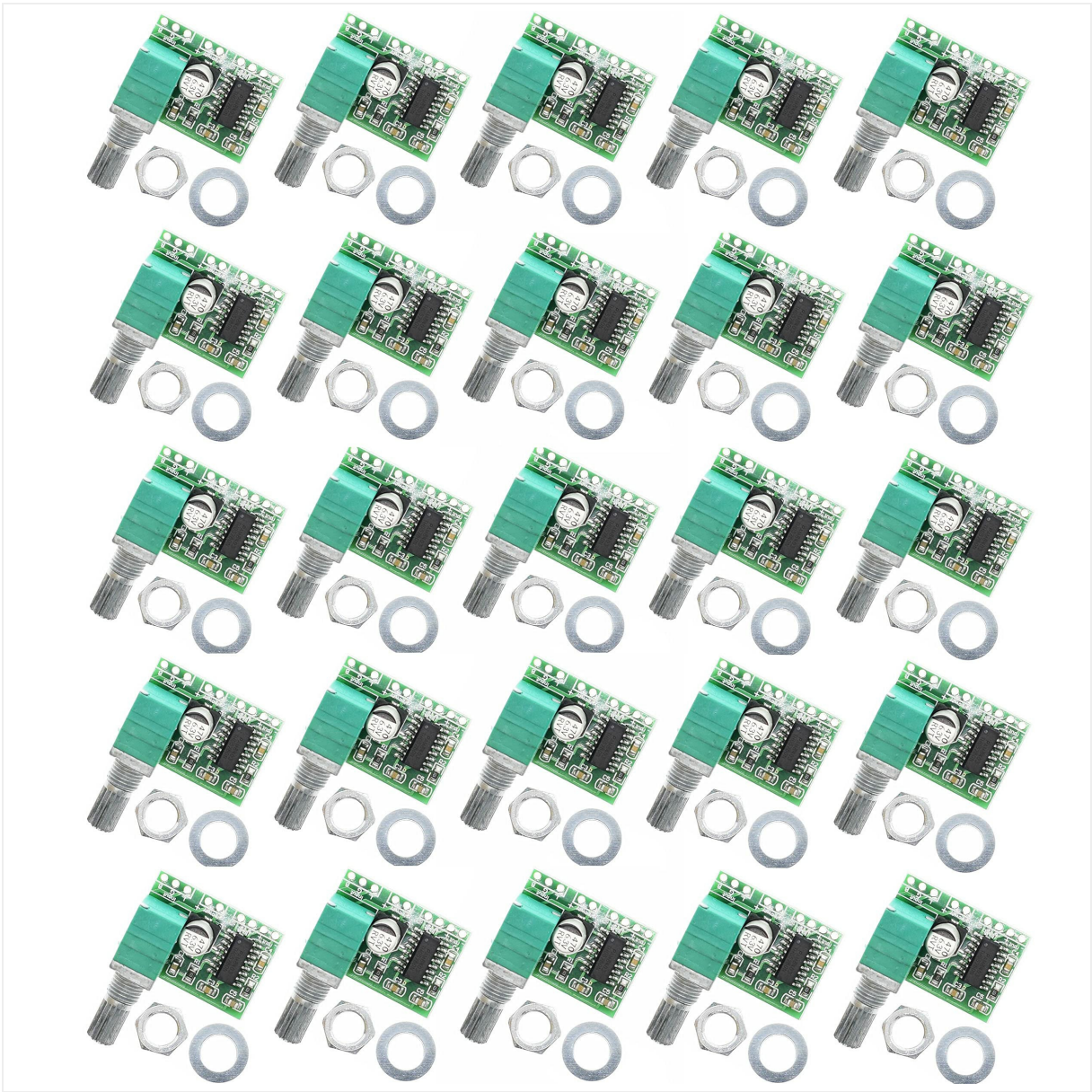


This image shows the PAM8403 digital amplifier board with Japanese text providing key specifications such as model number, operating voltage, maximum output power, and external dimensions.

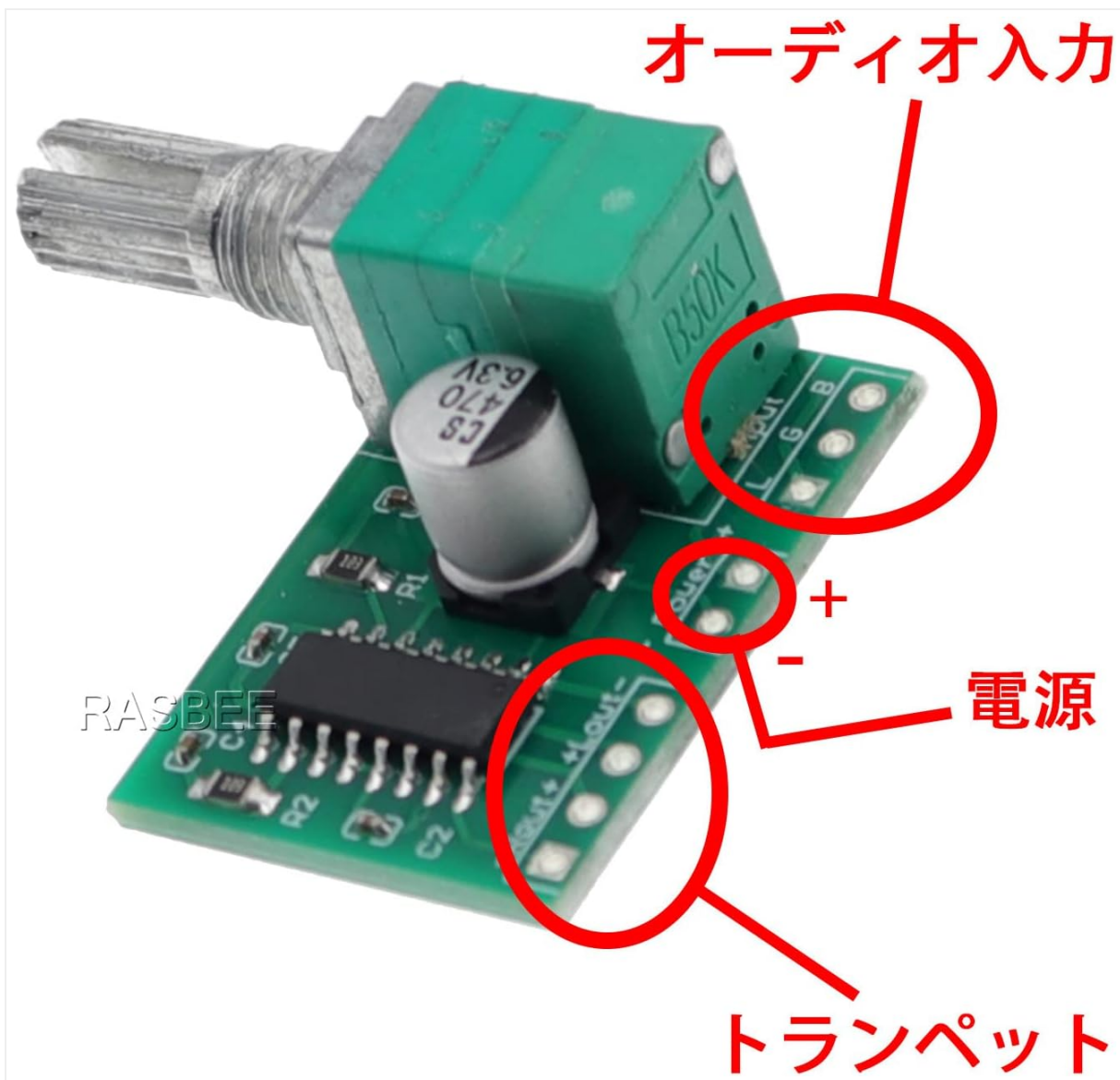
Feature	Specification
Brand	Rasbee
Model Number	PAM8403 5V
Operating Voltage	DC 5V (Max 5.5V)
Maximum Output Power	3W x 2 (at 5V, 4Ω)
Number of Channels	2 (Stereo)
Product Weight	45 g
External Dimensions	Approx. 29.5 x 20.2 x 15 mm

## Setup and Connections

Follow these steps to correctly connect your PAM8403 amplifier board:



This diagram illustrates the connection points for the PAM8403 amplifier board, including power, audio input, and speaker outputs.



This image displays the PAM8403 digital amplifier board with key connection points labeled in Japanese (Audio Input, Power, Speaker Output).

1. **Power Supply (5V):** Connect a stable DC 5V power source to the designated '5V power supply' terminals. Ensure correct polarity (+ and -). The operating voltage must not exceed 5.5V.
2. **Audio Input:** Connect your audio source (e.g., smartphone, MP3 player) to the 'audio input' terminals. 'L' is for the left channel, 'R' is for the right channel, and 'G' is for ground.
3. **Speaker Output:** Connect your speakers to the 'R' (Right) and 'L' (Left) speaker output terminals. Ensure speakers are rated for 4Ω impedance and can handle 3W power.

### Pinout Description:

For detailed connections, refer to the following pin descriptions:

- **+OUT\_L:** Left Channel Same Phase Output
- **PGNDL:** Left Channel Power Ground
- **-OUT\_L:** Left Channel Inverted Output
- **PVDDL:** Left Channel Power Supply
- **MUTE:** Mute Control Input (Active Low)
- **VDD:** Simulation VDD
- **INL:** Left Channel Input
- **VREF:** Internal Analog Reference Source (Bypass capacitor connected from VREF to GND)



3. **Audio Playback:** Ensure your audio source is playing and connected correctly. The amplifier will output sound through the connected speakers.

## Troubleshooting

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- **No Sound:**
  - Check if the power supply is correctly connected and providing 5V.
  - Ensure the potentiometer is turned on (clockwise click) and the volume is not at minimum.
  - Verify that the audio input source is active and connected to the correct terminals.
  - Confirm speaker connections are secure and correct.
- **Distorted Sound:**
  - Reduce the input volume from your audio source.
  - Ensure the power supply is stable and not fluctuating.
  - Check speaker impedance; ensure it is 4Ω.
- **Device Not Powering On:**
  - Double-check power supply connections and voltage.
  - Ensure the potentiometer is rotated fully clockwise to engage the power switch.
- **Product Malfunction:** Incorrect circuit connections can cause product malfunction. Always ensure wiring is correct before applying power.

## Warranty and Support

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If you encounter any quality issues with your RASBEE PAM8403 Mini Digital Audio Amplifier Board, please contact us directly for support. We are committed to resolving any problems you may experience.

To contact support:

1. Locate the 'RASBEE' seller link on the product page (typically below the 'Buy Now' button).
2. Click on the 'RASBEE' seller name to navigate to the seller's page.
3. On the seller's page, click the 'Ask a question' button to send an email to our support team.