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› [DWEII](#) /

› DWEII 3W 8 Ohm Mini Speaker with JST-PH2.0 Interface (Model 701715519671) - Instruction Manual

DWEII 701715519671

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Your guide to setup, operation, and maintenance.

1. INTRODUCTION

This instruction manual provides essential information for the proper installation, operation, and maintenance of your DWEII 3W 8 Ohm Mini Speakers with JST-PH2.0 Interface. These speakers are designed for small electronic projects, including use with Arduino, Raspberry Pi, advertising machines, and LCD TV monitors. Please read this manual thoroughly before use to ensure optimal performance and longevity of the product.

2. PRODUCT OVERVIEW

The DWEII Mini Speakers are compact audio components featuring a 3-watt power output and 8-ohm impedance. They come equipped with a JST-PH2.0 2-pin terminal for easy connection to various electronic circuits. Their internal magnetic design ensures stable performance and clear sound reproduction for their size.

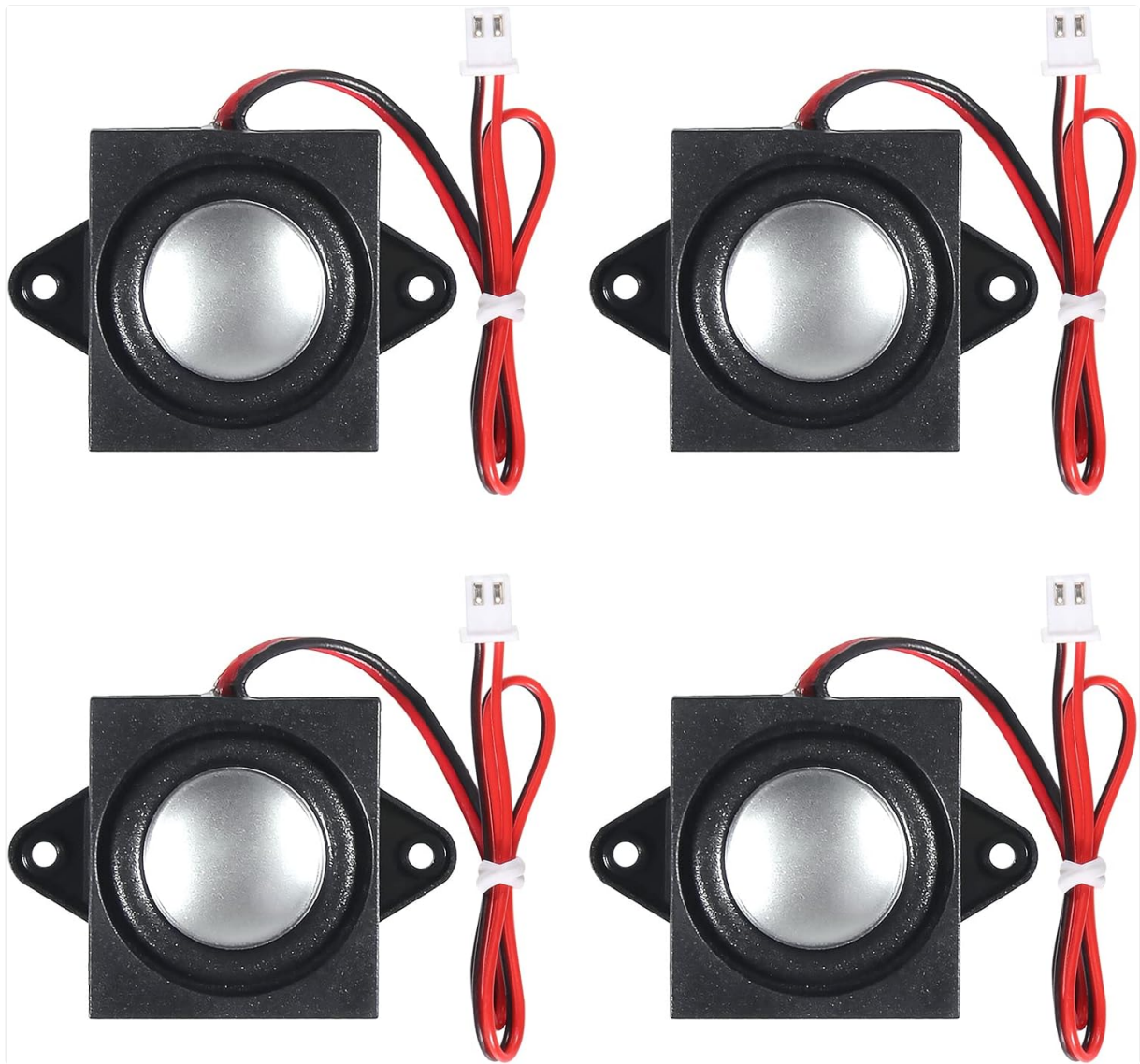


Figure 2.1: Four DWEII 3W 8 Ohm Mini Speakers. Each speaker is black, rectangular, and features a silver-colored diaphragm. They are connected by red and black wires to a white JST-PH2.0 connector.

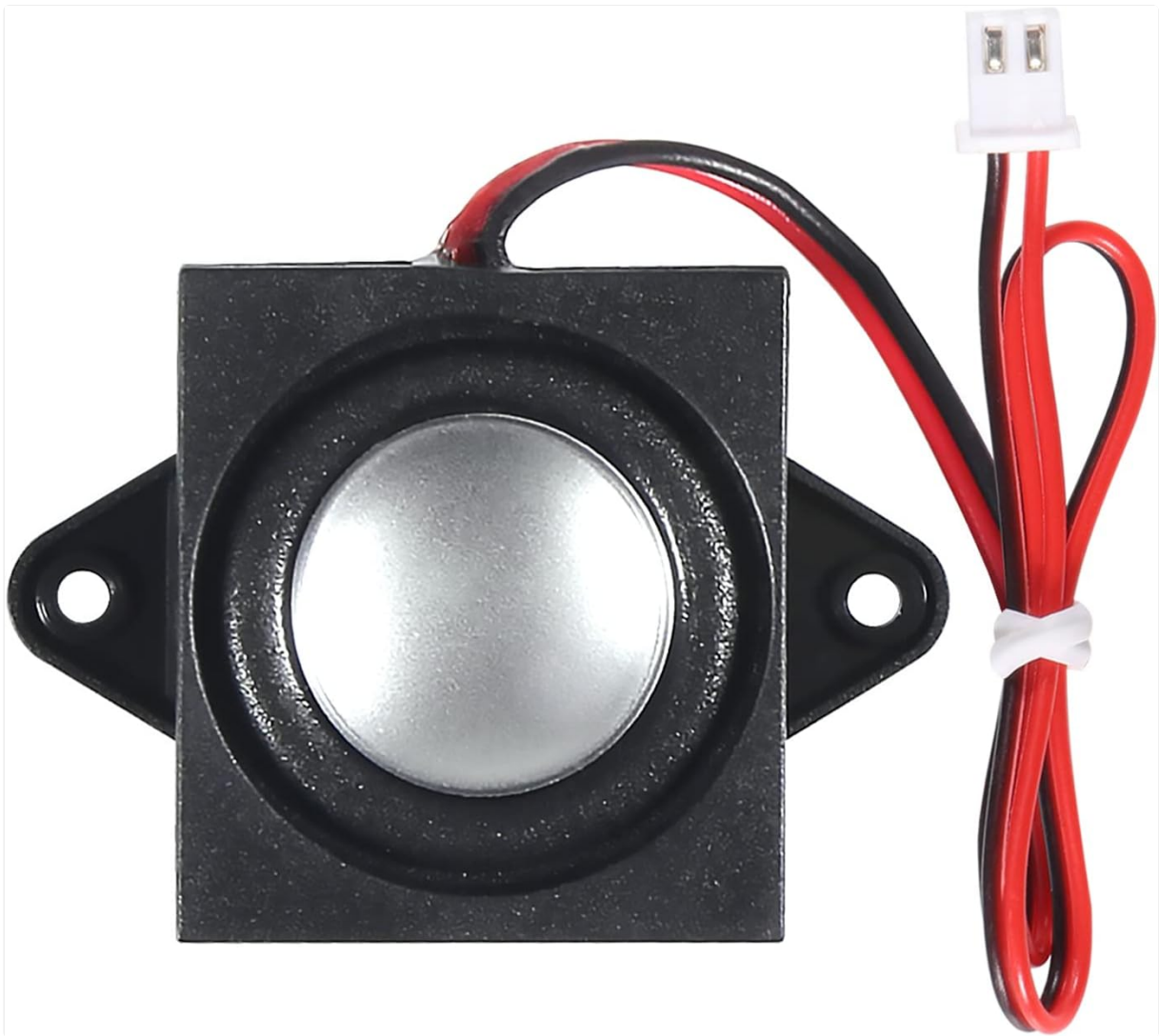


Figure 2.2: Front view of a single DWEII Mini Speaker, highlighting the silver diaphragm and mounting tabs.

3. SPECIFICATIONS

Feature	Detail
Model Number	701715519671
Power Output	3 Watts
Impedance	8 Ohms
Connector Type	JST-PH2.0 (2-pin)
Frequency Response	500Hz - 20kHz (Full Band)
Dimensions (L x W x H)	44mm x 28mm x 15mm (1.73"D x 1.1"W x 0.59"H)
Cable Length	11 cm
Material	Plastic (Diaphragm: Non-paper)
Magnetic Circuit Form	Internal Magnetic
Input Voltage	3.3V or 5V (compatible)

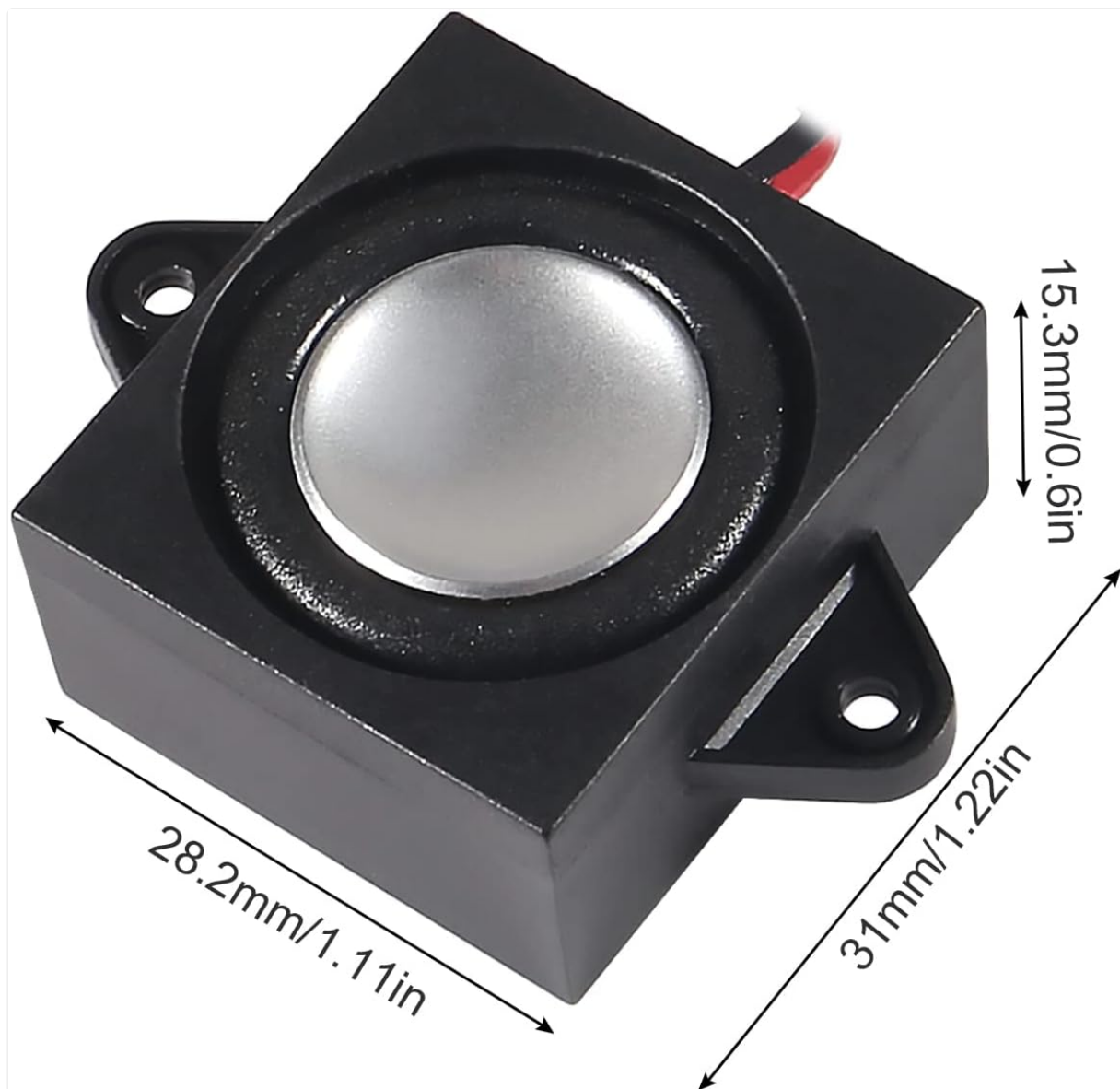


Figure 3.1: Detailed dimensions of the DWEII Mini Speaker.

4. SETUP AND CONNECTION

These mini speakers are designed for straightforward integration into various electronic projects. Follow these steps for proper connection:

1. **Identify Components:** Each speaker unit consists of the speaker driver, attached wires (red and black), and a JST-PH2.0 2-pin connector.
2. **Power Requirements:** The speakers are rated for 3 watts at 8 ohms. Ensure your audio amplifier or microcontroller output can safely drive these specifications. They are compatible with 3.3V or 5V logic levels for signal input, but the audio amplification circuit will require appropriate power.
3. **Connect to Audio Output:** Connect the JST-PH2.0 connector to the corresponding 2-pin header on your amplifier board or audio output module. The red wire typically corresponds to the positive (+) audio signal, and the black wire to the negative (-) or ground. Refer to your amplifier's documentation for specific pin assignments.
4. **Mounting:** The speakers feature mounting tabs with holes for secure installation. Use appropriate screws or adhesive to fix the speakers in your project enclosure or desired location. Ensure the speaker cone is not obstructed.



Figure 4.1: Close-up of the JST-PH2.0 connector for easy wiring.

5. OPERATING INSTRUCTIONS

Once connected, the DWEII Mini Speakers will reproduce audio signals from your connected device. The operation is dependent on the audio source and amplifier used.

- **Audio Source:** Ensure your audio source (e.g., microcontroller, media player) is providing a clean audio signal.
- **Amplification:** These are passive speakers and require an external audio amplifier to produce audible sound. Connect them to an amplifier that matches their 3W 8 Ohm specifications.
- **Volume Control:** Adjust the volume through your audio source or amplifier. Avoid exceeding the speaker's rated power (3W) to prevent damage and distortion.
- **Sound Quality:** The speakers are designed for full-range audio reproduction suitable for voice, alerts, and general project audio.

6. MAINTENANCE

The DWEII Mini Speakers are designed for durability and require minimal maintenance.

- **Cleaning:** Use a soft, dry cloth to gently wipe the speaker's exterior. Avoid using liquid cleaners or

abrasive materials, as these can damage the diaphragm or housing.

- **Environment:** Store and operate the speakers in a dry environment, away from extreme temperatures, direct sunlight, and excessive dust. These speakers are **not waterproof**.
- **Handling:** Avoid pressing on the speaker diaphragm, as this can cause irreversible damage.
- **Connections:** Periodically check the JST-PH2.0 connections to ensure they are secure and free from corrosion.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No sound	Incorrect wiring; No power to amplifier; Faulty audio source; Amplifier not connected.	Verify JST-PH2.0 connections (red to positive, black to negative/ground). Ensure amplifier is powered and receiving an audio signal. Test with a different audio source or amplifier if possible.
Distorted sound	Volume too high; Amplifier clipping; Damaged speaker.	Reduce volume from the audio source or amplifier. Ensure the amplifier's output power does not exceed 3W at 8 Ohms. Inspect the speaker diaphragm for physical damage.
Low volume	Low input signal; Amplifier gain too low; Incorrect impedance match.	Increase the output volume from your audio source. Adjust amplifier gain settings. Ensure the amplifier is designed for 8-ohm speakers.

8. WARRANTY AND SUPPORT

The DWEII Mini Speakers come with a Standard Warranty. For specific details regarding warranty coverage, duration, and claims, please refer to the purchase documentation or contact your retailer. For technical support or further assistance, please contact DWEII customer service through the contact information provided at the point of purchase or on the official DWEII website.