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uxcell da14e3ab-cab2-4984-ad49-32cfbe3dd1fe

uxcell 3PCS Rohs Approved 0.25Watt 8ohm 85db 27mm Diameter Speaker User Manual

Model: da14e3ab-cab2-4984-ad49-32cfbe3dd1fe

Product Overview

The uxcell 0.25Watt 8ohm 85db 27mm Diameter Speaker is an electrodynamic type speaker designed for integration into various electronic devices. It features a full spectrum band frequency characteristic, making it suitable for applications requiring clear audio output, such as doorbells or small audio projects.

This package includes three individual speakers, each with a dark green frame and constructed from copper, aluminum, and plastic components.



Image: Three uxcell 27mm speakers, displaying their compact size and construction. Two speakers are shown from the rear, revealing the solder points and magnet, while one is shown from the front, highlighting the speaker cone.



Image: A set of three uxcell 27mm speakers, accompanied by text indicating their key specifications: 0.25W, 8ohm, 85db, and that it's a

pack of 3 pieces.

Setup and Installation

These speakers are components designed for integration into existing or custom electronic circuits. Proper installation requires basic soldering skills and knowledge of electronic wiring.

Wiring Connections

Each speaker has two terminals for electrical connection. These terminals are typically marked or can be identified by their solder pads. Connect the speaker to your audio amplifier or circuit output using appropriate gauge wires.

- Ensure the power source and amplifier output match the speaker's specifications (0.25W, 8 Ohm) to prevent damage.
- Observe polarity if your circuit requires it, though for a single speaker in many basic audio applications, polarity may not be critical for function but can affect sound phase in multi-speaker setups.

Mounting

The speaker is designed for flush mounting. It has a diameter of 27mm (1.1 inches). Ensure the mounting hole is precisely cut to secure the speaker firmly without obstruction to the cone's movement.

- Use appropriate adhesive or mounting clips (not included) to secure the speaker within its housing.
- Avoid applying excessive pressure to the speaker cone during installation.

Operating Principles

The uxcell speaker operates on electrodynamic principles, converting electrical audio signals into sound waves. When an alternating current (audio signal) passes through the voice coil, it interacts with the magnetic field of the permanent magnet, causing the voice coil and attached speaker cone to vibrate. These vibrations displace air, creating sound.

- **Frequency Response:** 250-25000 Hz. This wide range allows for reproduction of various sounds, from low-mid tones to high frequencies.
- **Rated Power:** 0.25W. Do not exceed this power rating to prevent speaker damage.
- **Impedance:** 8 Ohm. This is the electrical resistance of the speaker, which should be matched with the output impedance of your amplifier for optimal performance and safety.
- **Sensitivity (DB):** 85db. This indicates how efficiently the speaker converts power into sound. A higher dB rating means louder sound for the same power input.

Maintenance

These speakers are low-maintenance components. Follow these guidelines to ensure longevity:

- **Cleaning:** If necessary, gently wipe the exterior with a dry, soft cloth. Avoid using liquids or abrasive cleaners.
- **Environment:** Store and operate the speakers in a dry environment, away from extreme temperatures, direct sunlight, and high humidity.
- **Physical Protection:** Protect the speaker cone from punctures or tears, as this will severely degrade sound quality.
- **Overpowering:** Avoid feeding the speaker with power exceeding its 0.25W rated power, as this can cause permanent damage to the voice coil.

Troubleshooting

If you encounter issues with your uxcell speaker, consider the following common troubleshooting steps:

- **No Sound Output:**
  - Check all wiring connections for proper soldering and secure contact.
  - Verify that the audio source is active and producing a signal.
  - Ensure the amplifier or audio circuit is powered on and functioning correctly.
  - Inspect the speaker terminals and voice coil for any visible damage or breaks.
- **Distorted Sound:**
  - Reduce the input volume or power to ensure it does not exceed the speaker's 0.25W rated power.
  - Check for any physical obstructions or damage to the speaker cone or surround.
  - Verify that the amplifier's impedance output matches the speaker's 8 Ohm impedance.
- **Intermittent Sound:**
  - Re-check all solder joints for cold or loose connections.
  - Inspect wires for fraying or breaks.

If problems persist after attempting these steps, consult a qualified electronics technician.

Specifications

Characteristic	Value
Product Name	Speaker
Model Number	da14e3ab-cab2-4984-ad49-32cfbe3dd1fe
Type	Electrodynamic Type
Rated Power	0.25W
Impedance (Resistance)	8 Ohm
Sensitivity (DB)	85db
Frequency Response	250-25000 Hz
Frequency Characteristic	Full Spectrum Band
Diameter	27mm (1.1 inches)
Material	Copper, Aluminum, Plastic
Main Color	Dark Green, Silver Tone, Black, Clear
Weight (per speaker)	Approx. 7g (21g for 3 speakers)
Package Contents	3 x Speaker
Mounting Type	Flush Mount
Recommended Uses	Doorbell, small audio projects

Warranty Information

The uxcell 0.25Watt 8ohm 85db 27mm Diameter Speakers come with a Limited Warranty. For specific details regarding the warranty period and terms, please refer to the product packaging or contact uxcell customer support directly. This warranty typically covers manufacturing defects under normal use conditions.

Please retain your proof of purchase for any warranty claims.

Support and Contact

For technical assistance, product inquiries, or warranty support, please contact uxcell customer service.

- **Online Support:** Visit the official uxcell store on Amazon for product information and frequently asked questions. Visit the uxcell Store
- **Manufacturer Contact:** Refer to the product packaging for direct contact information, if available.

When contacting support, please have your product model number (da14e3ab-cab2-4984-ad49-32cfbe3dd1fe) and purchase details ready.

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