

Audio

Buzzers, Microphones & Speakers



SOUND SOLUTIONS FOR ANY DESIGN

A product's ability to accurately take-in and clearly output audio signals is a vital part of its design. To ensure that your product finds its proper voice, we have developed a diverse range of compact buzzers, microphones, and speakers that minimize footprints and maximize reliability, making them the ideal audio solution for almost any application.

Waterproof Audio Solutions

Designed to protect against moisture and other environmental contaminants, CUI Devices offers a range of buzzers, microphones, and speakers with Ingress Protection (IP) ratings, including IP57, IP65, IP67, and IP68 rated models. With a variety of configurations, packages sizes, and performance specifications, CUI Devices' waterproof audio products give engineers additional flexibility when designing for industrial, outdoor, or any application where environmental factors may be a concern.



Engineering Tools



Parametric Search

With hundreds of buzzers, microphones, and speakers to choose from, utilize our online parametric search tool to quickly find and compare models based on your key specifications.



CAD Model Library

CUI Devices' library of ready-made 3D models and PCB footprints helps to streamline the design process, saving you precious time and resources. Users can view and download files in all major mechanical CAD formats free of charge.



SPL Calculators

Use our buzzer and speaker SPL calculators to convert a buzzer or speaker's specified SPL to different real-world conditions, or to compare sound pressure levels between two devices with different specified parameters.

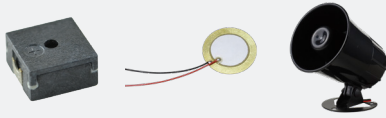
View these and more helpful resources at www.cuidevices.com/resources



Global Stock Availability

Our network of global distribution partners provides you with quick and easy access to thousands of our audio products, ready to ship same day across the globe.

AUDIO PRODUCT LINE



Buzzers

Piezo and Magnetic Technology

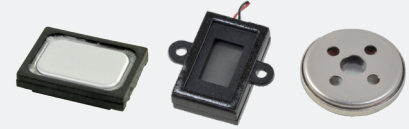
- Indicators, transducers, piezo elements & sirens
- Available with & without driving circuit
- Package sizes as small as 4 mm
- 65 ~ 120 dB sound pressure levels
- Numerous mounting styles
- 300 ~ 5,000 Hz rated frequencies
- Washable & wave solder compatible models
- Waterproof models up to IP68



Microphones

Electret Condenser and MEMS

- Omnidirectional, unidirectional & noise canceling directivity
- -54 ~ -24 dB sensitivities
- Sensitivity tolerances as low as ± 1 dB
- 56 ~ 72 dBA signal to noise ratios
- Packages as small as 2.75 x 1.85 x 0.95 mm
- Low current draw down to 80 μ A
- Terminal, pin, wire & surface mount termination types
- Reflow solder compatible models
- Operating frequencies up to 20,000 Hz
- Waterproof models up to IP67



Speakers

10 ~ 205 mm Package Sizes

- Oval, rectangular, round & square frame shapes
- 72 ~ 120 dB sound pressure levels
- Mylar, cloth & paper cone types
- 2 ~ 84 mm heights
- Alnico, Ferrite, Nd-Fe-B & Sm2Co17 magnet types
- Numerous mounting styles
- 50 ~ 3,000 Hz resonance frequencies
- Enclosed speaker models
- Waterproof models up to IP67

Custom Capabilities

Buzzers	Microphones	Speakers
<p>Mechanical Modifications</p> <ul style="list-style-type: none"> • Custom size & height profiles • Modified mounting styles • Alternate materials for housing, pins & plating <p>Electrical Adjustments</p> <ul style="list-style-type: none"> • Voltage • SPL • Frequency • Current consumption <p>Additional Modifications</p> <ul style="list-style-type: none"> • Washable stickers over sound holes • IP ratings • Operating/storage temperature ranges 	<p>Mechanical Modifications</p> <ul style="list-style-type: none"> • Custom wires & connectors • Alternate materials <p>Electrical Adjustments</p> <ul style="list-style-type: none"> • Operating voltage • Sensitivity rating • SNR rating • Impedance • Current consumption <p>Additional Modifications</p> <ul style="list-style-type: none"> • Washable stickers over sound holes • IP ratings • Operating/storage temperature ranges 	<p>Mechanical Modifications</p> <ul style="list-style-type: none"> • Custom size & height profiles • Custom wires & connectors • Alternate materials for cone, magnet & plastics <p>Electrical Adjustments</p> <ul style="list-style-type: none"> • Input power • Voltage • SPL • Frequency • Current consumption • Impedance

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