

# AUDIBLE COMPONENTS

ALARMS ▶ BUZZERS ▶ SOUND TRANSDUCERS ▶ MICROPHONES ▶ SPEAKERS



"Sounding Off"  
Since 1988



▶ SUPPLY MGT. ▶ PRE-ASSEMBLED ▶ NEW PRODUCTS ▶ CUSTOMIZATION ▶ ENGINEERING

## MANUFACTURING CHALLENGES

Challenge Electronics is a lean, flexible and dedicated audio component resource for some of the world's largest manufacturers.

We offer value-added services that can deliver parts pre-assembled and customized for your manufacturing requirements. We also offer supply chain management services to meet your operational challenges.

An established global source with lean, flexible manufacturing is key to unlocking global opportunities.

## ENGINEERING CHALLENGES

Challenge Electronics makes audio components louder, smaller, more energy efficient, more rugged and more cost effective.

We make audio components with standard and customized mechanical, electrical and audio characteristics. We offer engineering design services and bring extensive manufacturing experience to the challenge of making your product better.

Engineering better products that meet today's standards with competitive pricing is key to accessing global markets.

## GLOBAL CHALLENGES

The market is global. The competition is global, and so are the opportunities.

We deliver audio components to all major product categories - medical, consumer, recreational, industrial, marine, security, fire and safety, video & gaming, agriculture and more.

Global partners are the key to meeting your global challenges.



## ► PANEL MOUNT ALARMS

Our alarms are available in many different tone types, including 'dual tone' and low frequency. We make alarms that meet industry standard specifications, as well as develop alarms with proprietary and non-proprietary enhancements. Alarms can be corrosion and flame resistant, with built-in surge suppression and false alarm prevention capabilities.

## ► BUZZERS

Challenge Electronics makes industry standard replacement buzzers. We also customize buzzers for special applications. Our 'mini-industrial piezoelectric buzzers' are an entire family that outperforms conventional buzzers. Our buzzers are used in medical equipment, vehicles, security systems, consumer electronics and more.

## ► SOUND TRANSDUCERS

Challenge Electronics makes general purpose and special purpose sound transducers. We can make electromagnetic and piezoelectric components with the full range of mounting and termination options. Our transducers are also available for harsh environments, hermetically sealed with corrosion resistant diaphragms (IP-68) and rated for extended temperatures.



► SMD TRANSDUCERS

► DIGITAL MICS

► SURFACE SPEAKERS

► MINI BUZZERS

► PANEL ALARMS

## ► SPEAKERS

We offer a wide range of audio, electrical and mechanical characteristics for conventional and advanced speaker applications.

## ► MICROPHONES

Our microphones come with or without built-in amplifiers and capacitors and are available in a range of audio, electrical and mechanical characteristics.

## ► BATTERY HOLDERS

Power for portable/mobile products:  
AAA through D  
9V & Coin Cells  
Clips & Contacts  
IP68 certified.

