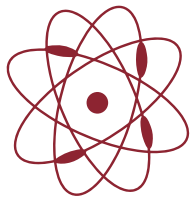
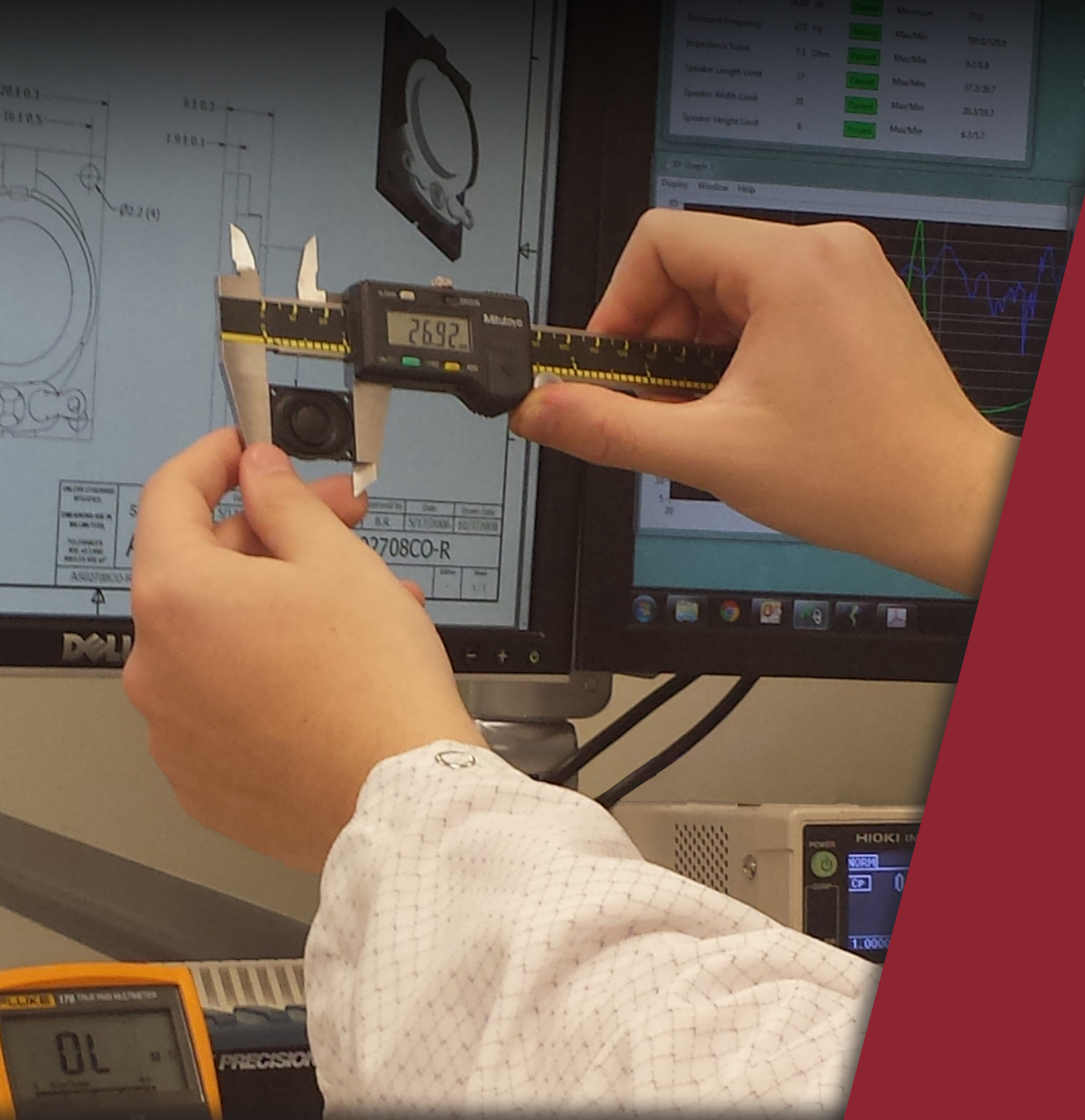


# EXPERIENCE

TOTAL SOUND SOLUTIONS.



**pui**  
**audio**™ inc  
a projects unlimited company



## OUR FOCUS

Being in the audio business since 1973 has its rewards, and we measure those rewards in satisfied customers. Having a solid reputation as being the premier audio component supplier in the industry, our focus is to provide you with total sound solutions. Through exceptional products and unlimited service, we intend on delivering.

## OUR CAPABILITIES

With our turn-key engineering and on-site production support, we can help with your most demanding audio applications. Our full range of design and testing equipment includes an on-site anechoic sound chamber, full functional and HASS environmental test equipment, 3D printers, as well as microscopes and X-Ray equipment. These tools provide us with a unique position in the industry to help you create your next masterpiece.

## OUR QUALITY

We are ISO 9001:2008 and QS-9000 certified. Every product is 100% factory inspected followed by additional testing at our headquarters in Dayton Ohio to ANSI Standard Z 1.4. Utilizing our anechoic sound chamber and state of the art B&K SoundCheck™ test system, instant test results ensure every product we ship meets exacting specifications. A complete test history for each product is maintained and archived.

## OUR SUPPORT

Having dedicated account management and localized support personnel, we are here to help optimize every detail of your audio project. With turn-key engineering capabilities as well as application design support and on-site production assistance, we can deliver exceptional results.



# FOR EVERY AUDIO NEED WE HAVE A SOUND SOLUTION

## OUR PORTFOLIO

We understand that not every design is simple or easy. That's why we offer different levels of customization and engineering support to help you throughout the process. Whether the answer is as simple as a modified termination or as complex as a chamber/enclosure design specific to your application; we have your total sound solution. A slight variation in a component can make all the difference in optimizing the user experience. When you need a standard audio product, we've got it, or we can give you choices. When you want to get really innovative and create that dynamic, set-your-product-apart sound, we have the expertise to support you!

## OUR STANDARD

Our Standard products are ready to be shipped whenever you need them. These stocked items have been fully tested and are ready for use.

## SPECIAL ORDER

These products are made from the same quality materials as our Standard line and offer the same features, but are slightly different. Whether you're looking for lead wires, a different termination, heat shrinking, flex circuits, etc., you'll find that PUI Audio can provide just what you need.

## CUSTOM ORDER

If your project is unique and you're struggling to find just the right sound, we can help. New and inspired ideas help spark our creativity too, and when it comes to audio, we specialize in working on custom projects. Getting started is easy - just give us a call or email!

**puiaudio.com**

For customized products, call or email us  
937.415.5901 - audio@puiaudio.com



# CUSTOMIZE OUT OF THE BOX SOLUTIONS

## WHY CUSTOMIZE

Every project is different, and when a standard off-the-shelf solution doesn't quite give the results you've been looking for, PUI Audio is here to help create a solution that fits your exact need. Form, Fit, and Function are primary reasons to consider a customized product, and incorporating a unique audio profile in your product can help establish a distinct differentiation in the marketplace. Benefits of which include:

- Brand Recognition
- New or Exclusive features
- A Unique Sound
- Improved Perception of Quality
- Enhanced User Experience
- Sound Optimization

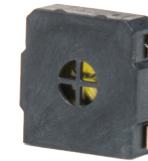
## HOW TO CUSTOMIZE

Regardless of the application, we'll help you develop the solution. And getting started is simple – just give us a call or send us an email. One of our technical experts will help find the perfect sound solution for you. Here are a few basic specifications we'll work with you to define:

- Sound Characteristics
- Dimensional Specifications
- Termination Preferences
- Mounting Options
- Power Requirements
- Use Conditions

For more great audio products, go to  
**puiaudio.com**

## SPEAKERS FULL RANGE AUDIO OUTPUT



**SMS-1308MS-2-R**  
4 H x 13 W x 13 L  
Frequency range:  
0.40-20kHz  
Max input: 1 W  
Rated input: 0.7 W



**AST-03208MR-R**  
15.1 H x 31.9 W x 31.9 L  
Frequency range:  
0.50-20kHz  
Max input: 0.2 W  
Rated input: 0.1 W



**AS05008MS-R**  
12 H x 50.5 W x 50.5 L  
Frequency range:  
0.80-7.0kHz  
Max input: 3 W  
Rated input: 1.5 W



**AS04004PR-R**  
17.5 H x 40 W x 40 L  
Frequency range:  
0.1-20kHz  
Max input: 4 W  
Rated input: 3 W



**AS07108PO-WR-R\***  
25 H x 41 W x 71 L  
Frequency range:  
0.1-20kHz  
Max input: 5 W  
Rated input: 3 W



**AS06608PS-WR-R\***  
29 H x 66.3 W x 66.3 L  
Frequency range:  
0.23-12kHz  
Max input: 5 W  
Rated input: 4 W

\*WATER RESISTANT

## INDICATORS INTERNALLY DRIVEN DEVICES EMITTING A SINGLE TONE



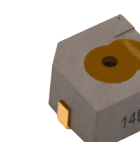
**AI-1440-TWT-12V-R**  
7.5 H x 13.8 W x 13.8 L  
Frequency:  
4,000 ± 500Hz  
Voltage range:  
3 – 16 VDC



**AI-1223-TWT-5V-R**  
9.5 H x 12 W x 12 L  
Frequency:  
2,300 ± 300Hz  
Voltage range:  
3 – 7 VDC



**AI-4228-TWT-R**  
14 H x 42 W x 42 L  
Frequency:  
2,800 ± 500Hz  
Voltage range:  
3 – 28 VDC



**SMI-1324-TW-5V-3-R**  
7.5 H x 12.8 W x 12.8 L  
Frequency:  
2,400 ± 500Hz  
Voltage range:  
3 – 7 VDC



**AI-2438-TT-R**  
17.2 H x 24 W x 24 L  
Frequency:  
3,800 ± 500Hz  
Voltage range:  
8 – 18 VDC



**AI-4329-P-SP28-R**  
33 H x 43 W x 43 L  
Frequency:  
2,900 ± 500Hz  
Voltage range:  
4 – 28 VDC

## TRANSDUCERS EXTERNALLY DRIVEN DEVICES CAPABLE OF EMITTING MULTIPLE TONES/FREQUENCIES



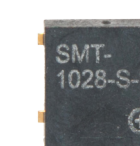
**AT-1438-TWT-R**  
6.8 H x 13.8 W x 13.8 L  
Frequency:  
3,800 ± 500Hz  
Voltage range:  
1 – 20 Vp-p



**AT-1220-TT-5-R**  
5.5 H x 12 W x 12 L  
Frequency:  
2,048 ± 100Hz  
Voltage range:  
1 – 3 Vp-p



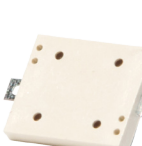
**AT-5210-TT-R**  
15.4 H x 54.6 W x 54.6 L  
Frequency:  
1,000 ± 200Hz  
Voltage range:  
1 – 60 Vp-p



**SMT-1028-S-R**  
3.5 H x 10 W x 10 L  
Frequency:  
2,830 ± 500Hz  
Voltage range:  
3 – 4.6 Vp-p



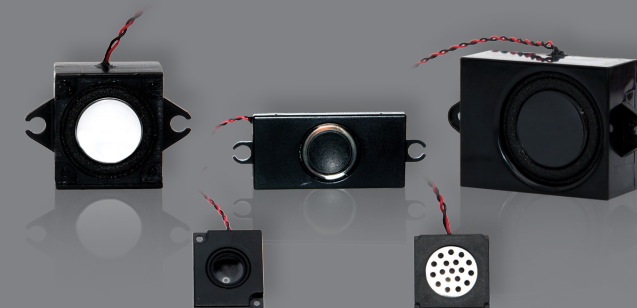
**SMT-0540-T-7-R**  
2 H x 5 W x 5 L  
Frequency:  
4,000 ± 500Hz  
Voltage range:  
2 – 4 Vp-p



**SMT-1141-T-3-R**  
1.65 H x 9 W x 11 L  
Frequency:  
4,100 ± 500Hz  
Voltage range:  
1 – 25 Vp-p

NOTE: ALL PRODUCT DIMENSIONS ARE MEASURED IN MILLIMETERS

## SPEAKER ENCLOSURES



Designed to maximize SPL output and performance of the speaker unit within its usable range, enclosures provide exceptional durability and enhanced sound quality. Our five standard variations have speaker elements that range from 16mm to 45mm diameter with enclosures as shallow as 5mm. Each is equipped with 150mm (5.90in.), 26-gauge wire leads attached. Full specifications available at [www.puiaudio.com](http://www.puiaudio.com).

- ASE02008MR-LW150-R
- ASE02808MR-LW150-R
- ASE03008MR-LW150-R
- ASE04508MR-LW150-R
- ASE06008MR-LW150-R

## SMT-0440 SERIES TRANSDUCERS

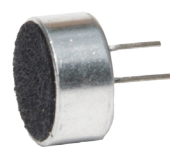


Pushing the envelope of audio transducer design, our newest SMT-0440 series transducers are 20% smaller than our already small SMT-0540 series.

Both the side-firing SMT-0440-S-R and top-firing SMT-0440-T-R feature overall dimensions of only 4mm square and 2mm in profile to accommodate even the tightest, most populated PCB's. Built to be powered by a 2 to 4V0-p square wave, each device is capable of producing a 70dBA, 4kHz tone (measured at 10cm) while consuming only 90mA.

**SMT-0440-T-R**  
**SMT-0440-S-R**

### MICROPHONES



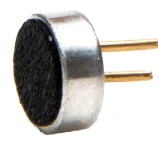
**AOM-4544P-2-R**  
4.5 H x 9.7 W x 9.7 L

Directivity:  
Omni-directional  
Sensitivity:  
-44 ± 2dB



**POM-3535L-3-R**  
3.5 H x 6 W x 6 L

Directivity:  
Omni-directional  
Sensitivity:  
-35 ± 4dB



**TOM-1545P-R**  
1.5 H x 4 W x 4 L

Directivity:  
Omni-directional  
Sensitivity:  
-45 ± 3dB



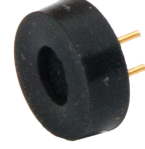
**PNM-3546L-R**  
3.5 H x 6 W x 6 L

Directivity:  
Noise canceling  
Sensitivity:  
-46 ± 4dB



**POW-1644L-LWC50-B-R\***  
1.6 H x 6 W x 6 L

Directivity:  
Omni-directional  
Sensitivity:  
-44 ± 3dB



**POW-1644P-B-R\***  
1.6 H x 6 W x 6 L

Directivity:  
Omni-directional  
Sensitivity:  
-44 ± 3dB

All Microphones are Electret Condenser Technology (ECM) \*Water Proof (IP-57 Rated)

### PIEZO BENDERS



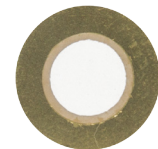
**AB2720B**

Bender diameter: 27  
Total thickness: 0.23  
Resonant frequency:  
2,000 ± 500 Hz  
Capacitance:  
45,000 ± 30%pF



**AB2036AF**

Bender diameter: 20  
Total thickness: 0.21  
Resonant frequency:  
3,700 ± 500 Hz  
Capacitance:  
20,000 ± 30%pF



**AB1541**

Bender diameter: 15  
Total thickness: 0.20  
Resonant frequency:  
4,100 ± 500 Hz  
Capacitance:  
8,000 ± 30%pF



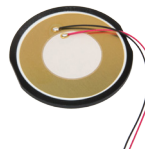
**AB2072S**

Bender diameter: 20  
Total thickness: 0.43  
Resonant frequency:  
7,200 ± 300 Hz  
Capacitance:  
10,000 ± 30%pF



**AB1070B-LW100-R**

Bender diameter: 9.9  
Total thickness: 0.12  
Resonant frequency:  
7,000 ± 600 Hz  
Capacitance:  
10,000 ± 30%pF



**APS4812B-LW100-R**

Bender diameter: 50  
Total thickness: 2.2  
Resonant frequency:  
1,200 ± 200 Hz  
Capacitance:  
65,000 ± 30%pF

### SIRENS



**AW-10FW-NSVC**

43 H x 53 W x 53 L  
Resonant frequency:  
2,700 / 3,100Hz  
Operating voltage:  
9 - 28 VDC



**AW-10PR-NSVC**

44 H x 50 W x 50 L  
Frequency range:  
2,700 / 3,100Hz  
Operating voltage:  
9 - 28 VDC



**AW15SBW**

75 H x 93 W x 93 L  
Frequency range:  
Configurable  
Operating voltage:  
9 - 28 VDC



**AW15SBR**

75 H x 93 W x 93 L  
Frequency range:  
Configurable  
Operating voltage:  
9 - 28 VDC



**AW-10FR**

43 H x 52.5 W x 52.5 L  
Frequency range:  
Configurable  
Operating voltage:  
9 - 28 VDC



**AW-10PW-NSVC**

44 H x 50 W x 50 L  
Frequency range:  
2,700 / 3,100Hz  
Operating voltage:  
9 - 28 VDC

NOTE: ALL PRODUCT DIMENSIONS ARE MEASURED IN MILLIMETERS

## EXPERIENCE YOU CAN TRUST

Delivering quality audio products for more than 40 years has given PUI Audio the ability to gain in-depth knowledge and experience in countless markets. With a wide range of products and devices capable of producing the simplest beep to the most dynamic range output, our products are viable in any application. While the applications below encompass only a small variety of where our products are used, the possibilities are endless. Let PUI Audio help with your next project.

### MEDICAL

#### Hospital

- Pumps
- Vital Signs Monitoring
- Diagnostic/Imaging
- Surgical Equipment
- Patient Entertainment

#### Non-Hospital

- Glucose/Insulin Meters
- Defibrillators
- Implantable Devices
- Lab Equipment

### SECURITY & FIRE

#### Commercial/Home Security

- Retail Alarms
- Metal Detectors
- Glass Break Sensors
- Home Security Monitoring
- Intercoms
- System Panels
- Radar Detectors

#### Fire & Safety

- Smoke Detectors
- Fire Control
- Firefighter Monitoring

### INDUSTRIAL

#### Construction Equipment

- Lifts

#### Test & Measurement

- Gas Detection
- Voltage Meters
- Scales
- Oscilloscopes
- Multimeters
- Thermometers

#### Elevators

#### Gas Pumps

#### Power Management

- Batteries
- UPS/Backup Systems

#### GPS/Navigation Devices

#### Cameras

#### Phones

### FOOD SERVICE EQUIPMENT

- Fryers
- Coffee Makers
- Vending Machines
- Beverage Machines

### RETAIL SCANNERS & READERS

#### Barcode Scanners/Readers

#### POS/Transaction

- POS Printers
- Credit Card Terminals
- ATMs/Kiosks
- Registers

### CONSUMER ELECTRONICS

#### Wearable Devices

#### Hand-Held Devices

#### Bluetooth & Wireless

#### Computer/Peripherals

- Printers
- Modems

#### White Goods

- Washers
- Dryers
- Small Appliances

#### Exercise Equipment

- Treadmills
- Elliptical Machines
- Exercise Bikes



## OUR COMPANY

Focused on Audio products since 1973, PUI Audio is a third-generation family-owned business located in Dayton, Ohio. Dayton is located within 500 mi (805 km) of 60% of the U.S. population and manufacturing capacity, making it one of only two major logistics centroids in the United States.

[audio@puiaudio.com](mailto:audio@puiaudio.com)

937.415.5901

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Dayton, OH 45414

[puiaudio.com](http://puiaudio.com)

