LET US TAKE THE GUESSWORK OUT OF AUDIO

ONE SOURCE, MANY SOLUTIONS.

STETRON

Who We Are

Stetron is a global supplier of audio components including **microphones (ECM's), dynamic receivers and loudspeakers.**

We assist customers with **application and design support** to optimize acoustic performance. This includes standard/custom components, Application and Engineering Design Services complimented with comprehensive Asian and North American test facilities and equipment.

We utilize Asian based manufacturing combined with our North American engineering to create technically advanced products at competitive prices.

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About Us

- Since 1965, Stetron has earned recognition as a manufacturer of quality audio components and system solutions.
- Stetron is headquartered in Buffalo, New York and Toronto, Canada with operations in :
  - Taipei, Taiwan,
  - Foshan and Ningbo, China.
  - Manufacturing – Shenzhen, Jiashan, Weifang, Mingguan & Changzhou China
- Focus on Telecom / Voice / Multimedia / Fire and Safety applications
- Demonstrates design phase value add

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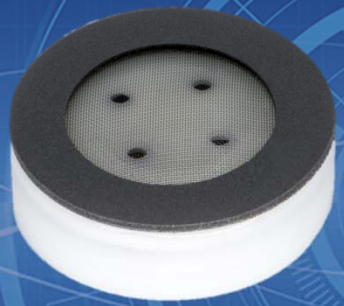
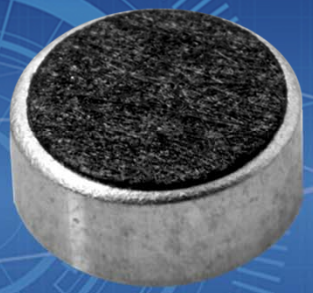
Our Core Component Offering

Loudspeaker Drivers



Dynamic Receivers



Electret Condenser Microphones

Audio Sub-Assemblies / Custom Audio Enclosures

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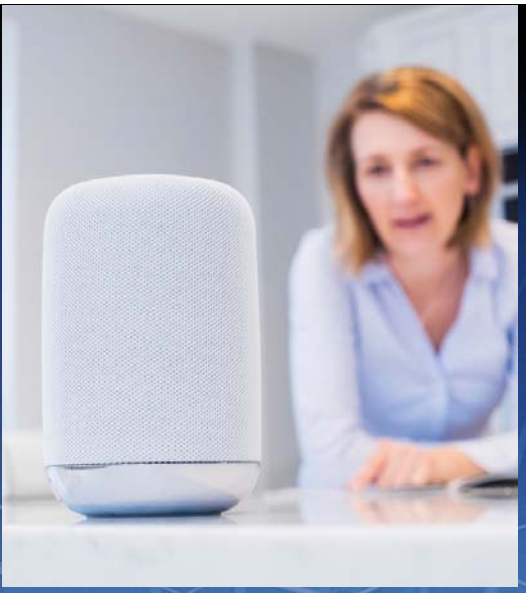

Focus Markets

- Telecom
- IOT
- Wearables
- Bluetooth Applications
  - Hands Free Car Kits
  - PND's
- Fire & Safety
- Medical
- Home Automation
- Gaming
- Telematics
- Handheld
- Portable Sound System

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THE FUTURE IS

LISTENING

Product Overview

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STETRON

Micro-Speakers and Receivers 10mm - 30mm

Features

- Very Rugged Design
- Compound Cone designs
- Low THD
- High SPL
- Round, rectangular and oval form factors

15x08mm

24x15mm

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Mid Size Speakers
36mm - 57mm

Features

- Low profile
- Wide band and narrow band
- Low THD
- High SPL
- Round, rectangular and oval form factors

40mm

40x30mm

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STETRON

Telecom Speakers / Receivers

Features

- Up to 18kV ESD Tolerance
- Rigid Quality Standards
- Flat Frequency Response
- Low THD

Applications

- Telephony
- Conference units
- Laptop Computers
- Intercom
- Instrumentation
- Headsets

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Fire and Emergency Evacuation Speakers 2” / 4” / 8”

- Indoor/Outdoor
- UL1480(2005)
- ULC
- UL217 520Hz smoke alarm proposed Standard.
- High output, flat response, and low distortion
- Extensively tested, qualified for UL & ULC component compliance

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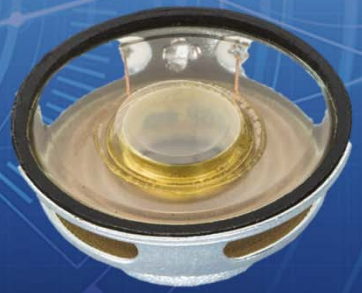
High Temp, Waterproof Speakers and Microphones for Respiratory Protection Applications

- Stetron supplies speakers and microphones for communications systems for use in harsh or hazardous environments.
  - Key Features:
    - High Temperature per NFPA
    - Waterproof
    - Low Distortion
    - High SPL Output (Speakers
    - High SPL Input (Microphones)
    - High SNR (Microphones)



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Automotive and Commercial Sound

- Features
- Very Rugged Design
- Smooth Response wide Frequency Range

- Applications
  - Automobile sound systems
  - PA, Paging, Sound masking
  - Background Music
  - Commercial Audio OEM's

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Dynamic Receivers 6mm – 40mm

32mm
Encapsulated

40mm

Features

- Low profile
- Wide band and narrow band per TIA
- Low THD
- High SPL
- Encapsulated

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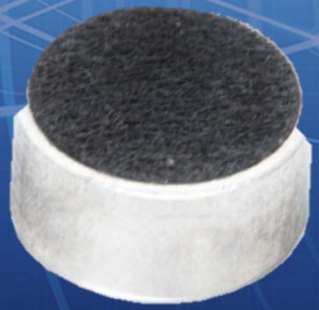
Electret Microphones 4mm-10mm

10x5mm



4x1.2mm

Features

- Omni and Uni directional
- Noise cancelling
- SMT, Pin and Wire type
- High sensitivity and SNR
- Water proof to IPX 8 – 200M

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Engineering Design Solutions and Support

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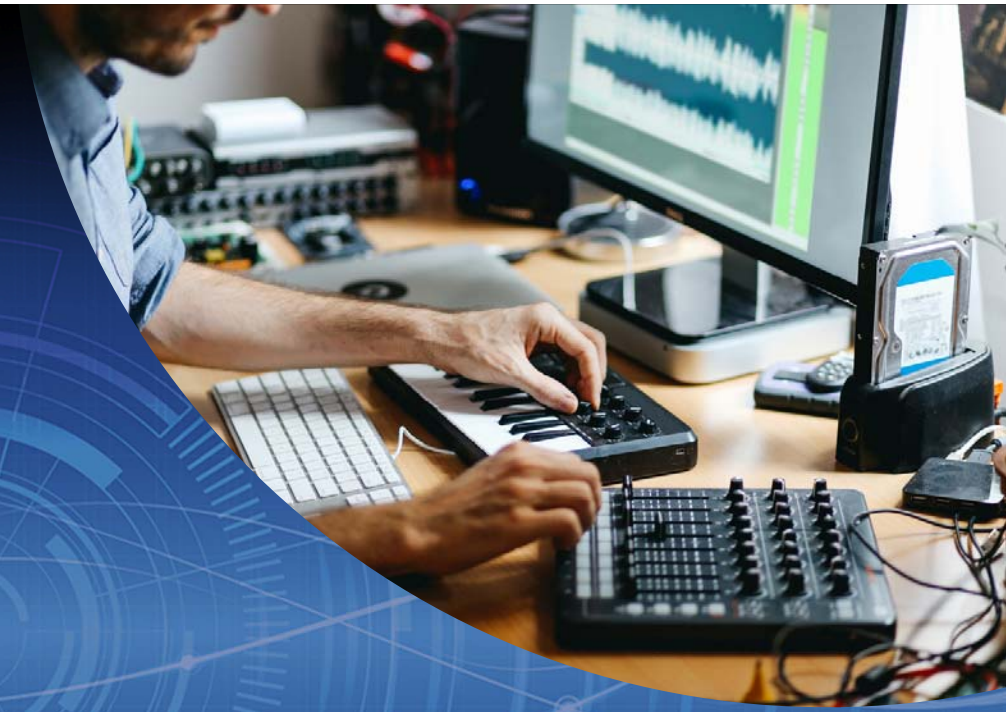
Standard Services



- Acoustic component recommendation
- Component performance verification
- Component prototyping support
- Comprehensive audio component evaluation and suggestions for performance optimization.

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Lab Facilities

- Anechoic Chamber
- Standard IEC268-5 Baffle
- B&K Artificial Ears and HATS
- Klippel, Clio and SoundCheck Audio Measurement System
- Constant calibration of test equipment ensures complete confidence in test results.

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Measurement Capabilities

Stetron uses an MLS based-electro-acoustic test system.

- Measurement capabilities:
  - Thiele-Small parameters
  - Frequency response
  - Total Harmonic Distortion
  - Waterfall plots

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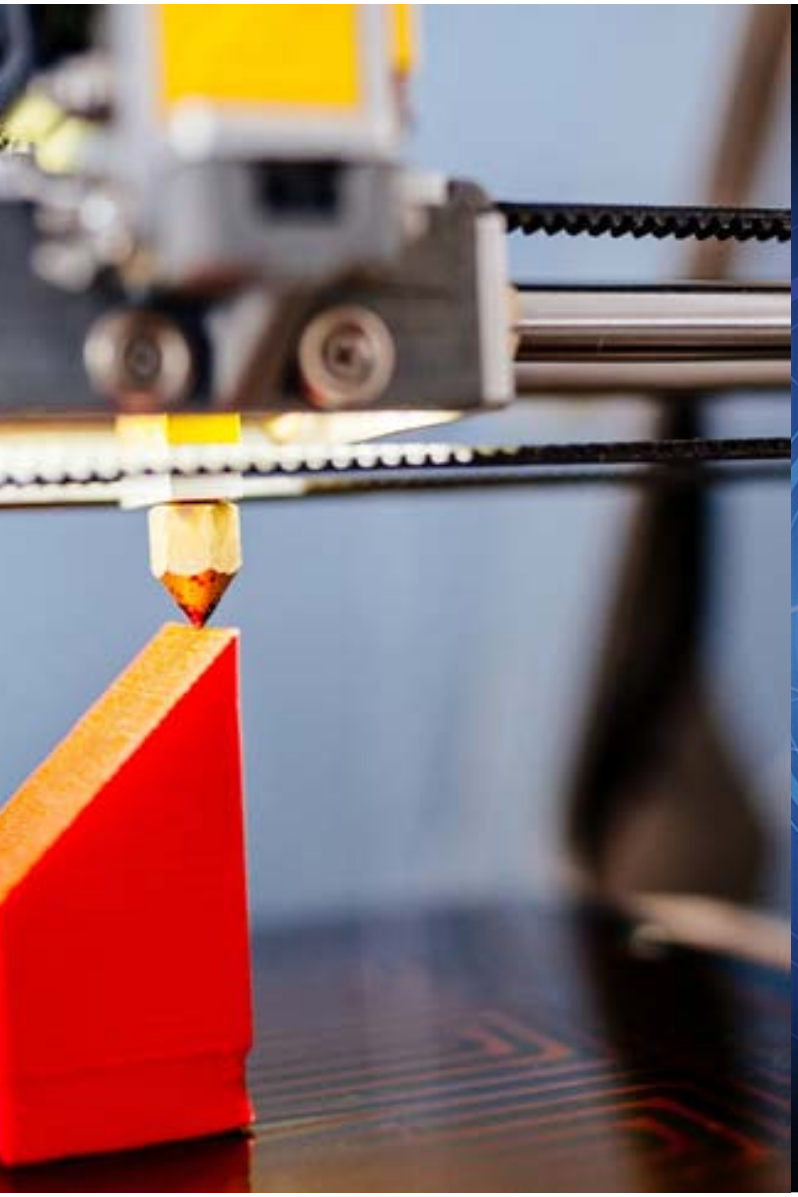

Design Support

- Customized acoustic component design
- Component and System Simulation
- “Fast to Market” Project Optimization
  - CNC samples – Component
  - SLA, CNC, 3D capabilities
- Benchmark product investigation and comparison
- Various enclosure concepts including ported, sealed and passive radiator designs.

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Audio Test and Measurement Solutions

- Services Include:
  - Application Engineering
  - Enclosure Design
  - Prototyping
  - End to End Product Design
  - Acoustic Testing

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Customized Enclosure Systems

- We can develop enclosure solutions of various types such as ported, sealed, and passive radiator builds for audio sub-assembly.
- Software simulations and rapid prototyping:
  - Proof of concept
  - 3D prints and CNC To optimize all manufacturing functions, we conduct a full DFM review before transitioning into production.
- Agile product development ensures optimal cost with quickest turnaround.

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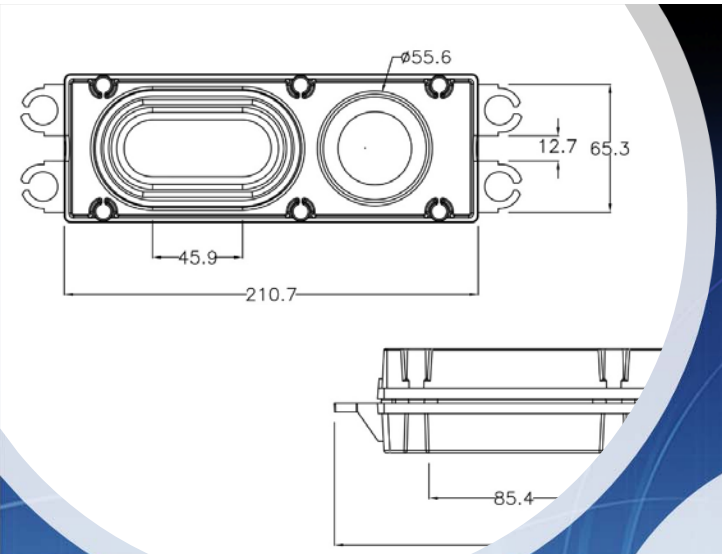

Customized Enclosure Systems

- We can create custom enclosures for:
  - Woofer
  - Tweeter
  - Passive Radiator
  - Mid Range
  - 3D Print or CNC Prototyping

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Innovations

Recent Product Introductions

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STETRON

Low Profile High Output 50m Speaker

- Diameter: 50mm
- Nom/Max Power: 1W/1.5W
- Depth: 8.5mm
- Impedance: 8 Ohms
- Res Freq: 240Hz
- Bandwidth: 240Hz - 10kHz
- SPL: 88 dB @1W/0.5m
- THD: Max 5% @ 1W, 300Hz-500Hz
  Max 9% @ 1W, 500Hz – 6kHz

Recent Introduction

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STETRON

Super Wideband Low Profile High Output Speaker

- Diameter: 55mm
- Nom/Max Power: 1W/2W
- Height: 13mm
- Impedance: 4 Ohms
- Res Freq: 160Hz
- Bandwidth: 160Hz - 10kHz
- SPL: 86 dB @1W/0.5M
- THD @ 1W: Max 6%, 200Hz - 8kHz

Recent Introduction

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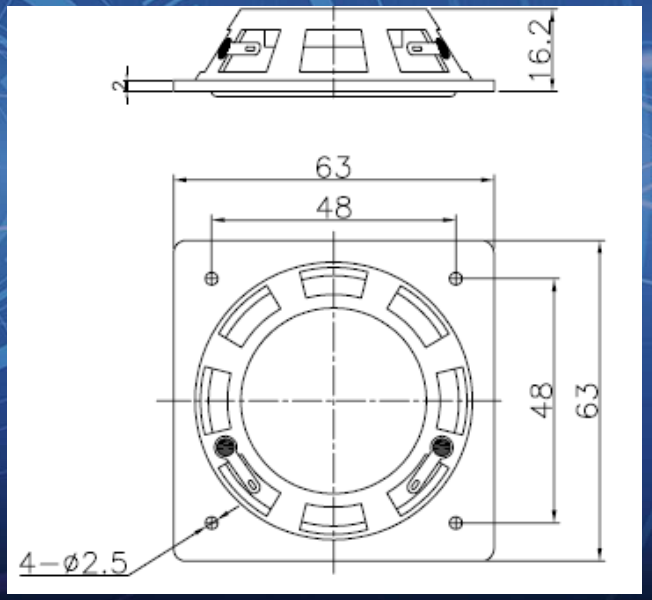
50mm Low Profile Sub-Woofer

- Size: 63x63mm (50 mm Dia. active)
- Nom/Max Power: 5.0W/7.5W
- Height: 16.2mm
- Impedance: 8 Ohms
- Res Freq.: 85Hz
- Bandwidth: 85Hz - 2kHz
- SPL: 78 dB @ 0.5W/0.5m
- THD: Max 10%



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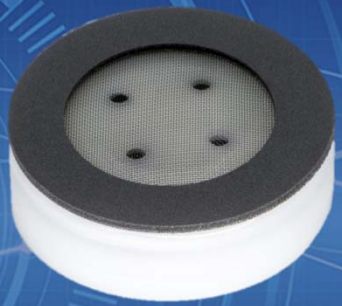
Enclosed Dynamic Receiver

- Diameter: 31mm
- Nom/Max Power: 10mW/30mW
- Height: 9.5mm
- Impedance: 90 Ohms
- Bandwidth: 200Hz - 6kHz
- SPL: 83 dB @ 61mV/IEC 711 3.2 coupler
- THD @ 0.25mW: Max 5%, 200Hz-6kHz



Recent Introduction

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Telematics MidSize Speaker

- Diameter: 40mm
- Height: 9.5mm
- Nom/Max Power: 2W/4W
- Impedance: 4 Ohms
- Res. Freq.: 350Hz
- Bandwidth: 350Hz – 15kHz
- SPL: 82dB @ 1W/1m
- THD: Max 15% @ 2W 420Hz – 10kHz

Recent Introduction

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High SPL Multi-Use Speaker

- Size: 16x9mm
- Height: 3.0mm
- Nom/Max Power: 0.7W/1.0W
- Impedance: 8 Ohms
- Res. Freq.: 500Hz
- Bandwidth: 500Hz - 20kHz
- SPL: 92dB @ 0.7W/0.1m
- THD: Max. 15% @ 0.7W

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Low Profile, High Output Dynamic Receiver

- Diameter: 32mm
- Height: 6mm
- Nom/Max Power: 10mW/30mW
- Impedance: 32 Ohms
- SPL: 97dB @ 24mV/IEC 318
- Bandwidth: 200Hz – 7.5kHz

Recent Introduction

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Flat Panel Monitor Speaker

- Size: 132x45mm
- Height: 30mm
- Nom/Max Power: 10W/15W
- Impedance: 8 Ohms
- Res. Freq.: 220Hz
- Bandwidth:220Hz – 20KHz
- SPL: 79 dB @ 1W/1m
- THD: Max 5% @1W

Recent Introduction

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High Performance Midsize Speaker

- Size: 40mm
- Height: 12mm
- Nom/Max Power: 1.0W/2.0W
- Impedance: 8 Ohms
- Res. Freq.: 400Hz
- Bandwidth: 400Hz-20KHz
- SPL: 96 dB @ 1W/0.3m
- THD: Max 5% @ 0.1W

Recent Introduction

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Future Direction:
Our Technology and Our Vision

To competitively offer the acoustical characteristics of Hi-Fi loudspeakers, into smaller sized speakers.

Low profile, Low F0, high output and low THD.

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Stetron Value Proposition

- Deliver superior, standard and custom high end solutions
- Achieve standard price point through volume
- Differentiate through technical superiority
- Extensive testing and modeling support
- Support partner “fast to market” design cycle collaboration
- Optimized performance and cost
- Local N.A. & Asian engineering, test support
- Excellence in service and support

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Resources Review

- Design Engineering Capability
- Anechoic Test Chambers
- Sophisticated Audio Analysis Software
- Speaker Modeling Capabilities
- Enclosure Design Capabilities
- Extensive Environmental test facilities
- Consulting Services

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Contact Us

- Email Us: contact@stetron.com
- Website: www.stetron.com
- Connect with Us on Social Media

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