AUDIOWELL

SENSOR TECHNOLOGY

PRODUCT CATALOGUE

Intelligent Security

Audiowell Electronics(Guangdong) Co.,Ltd.

Add: No.4 Block 3 Yinping Road,Panyu, Guangzhou, Guangdong, China 511400

Tel: +86-20-84802041

Fax: +86-20-84665207

E-mail: inquire@audiowell.com

www.audiowell.com

AUDIOWELL INTRODUCTION

Audiowell Electronics(Guangdong) Co., Ltd. (AUDIOWELL) was established in 1999, stock abbreviation: Audiowell, stock code: 920491. The company is a high-tech enterprise specializing in the research, design, production and sales of intelligent sensors and actuators and related applications.

Owning four manufacturing bases, Audiowell possesses the ability of of transducer chip preparation, structural design,intelligent algorithm, precision machining and packaging and testing technology and the main products are intelligent sensors and actuators. Products are widely used in intelligent vehicle, intelligent meters, smart homes, smart security, smart terminals and other fields. Audiowell committs to becoming the main provider of the core components of the perception layer and the execution layer and their solutions.

AUDIOWELL
SENSOR TECHNOLOGY

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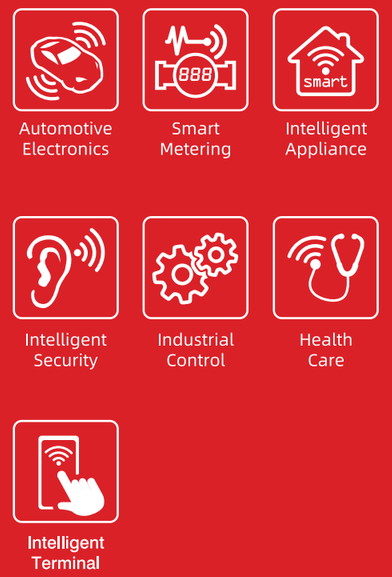

INTELLIGENT SECURITY

Piezoelectric Ceramic Element

Piezoelectric Buzzer

All-copper Electrode Piezoelectric Buzzer

MEMS Ultrasonic Sensor

Ultrasonic Rangefinder

High SPL Buzzer

PRODUCTS CATALOGUE

INTELLIGENT SECURITY

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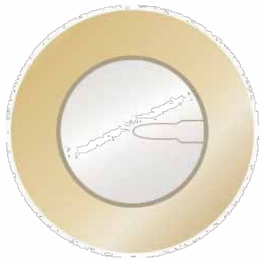
Piezoelectric Ceramic Element

Features

-Small size, easy to install
-Stable performance



Applications

-Smoke alarm detector

Model	PL0544-014	PL0653-000	PL0663-000
Resonant frequency (KHz)	3.2	3.2	3
Resonant impedance (Ω)	600	350	400
Static capacitance (pF)	25000±30%	36000±30%	40000±30%
Diameter (mm)	34.55	34.7	34.7
Thickness (mm)	0.54	0.52	0.53

Piezoelectric Buzzer

Features

- High reliability
- The material is resistant to high temperatures and has good flame retardancy
- Pass UL standard

Applications

-Smoke alarm detector

Model	QJ0868
Resonant frequency (KHz)	3250
S.P.L (dB)	≥105(12V/25cm)
Max. input voltage (V)	16
Max. Rated Current (mm)	40
Size (mm)	Φ30.6 x 16.0

All-copper Electrode Piezoelectric Buzzer

Features

- All copper electrodes are used, reducing raw material purchase and production costs.
- Better frequency response curve than silver electrode buzzer, higher loudness.
- Higher reliability due to withstand high voltage of kilovolts per millimetre.

Applications

-Smoke alarm detector

Model	All-copper Electrode Piezoelectric Buzzer
Operating voltage (VDC)	3~30
Sound pressure range (dB)	75 Min(at 100cm)
Resonant frequency (Hz)	3000±500
Operating temp. (° C)	-40~+85
Weight (g)	3.0

MEMS Ultransonic Sensor

Features

- Ultra-small size
- Low voltage drive

Applications

-Smoke alarm detector

Model	AW102
Resonant frequency (KHz)	65
Field of view (°)	180
Operating voltage (Vop)	3~30
Capacitance (nF)	2.3
Operating temp. (℃)	-40 ~ +85
Size (mm)	4.3x4.1x1.93

Ultransonic Rangefinder

Features

- Surface mountable, no separate installation required
- Field of view up to 180°, single module can achieve panoramic coverage
- Semiconductor Processes and Packaging

Applications

-Smoke alarm detector

Model	AU0012
Frequency (KHz)	65
Communication mode	UART
Field of view (°)	180
Operating voltage (V)	5
Detection range (cm)	10~50
Module size (mm)	19.2x17.2x3.53

High SPL Buzzer

Features

- High sound pressure
- High and low temperature resistance

Applications

- Airport bird repellent

Model	QJ0892-000
Appearance	
S.P.L (dB)	≥110
Resonant frequency (KHz)	2.40±0.5
Capacitance (pF)	186000±30%
Operating temp. (℃)	-40 ~+105
Size (mm)	Φ45.3 x 22

Lineup

Product	Appearance	Smoke alarm detector	Strong sound expeller	Security system
Piezoelectric Ceramic Element		■		
Piezoelectric Buzzer		■		
All-copper Electrode Piezoelectric Buzzer		■		
MEMS Ultrasonic Sensor		■		■
Ultrasonic Rangefinder		■		
High SPL Buzzer			■	
Ultrasonic Ranging Sensor		■		

Sensor technology shaping an intelligent life.