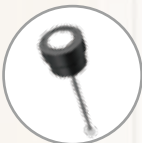


INTELLIGENT APPLIANCE



300KHZ Ultrasonic Transducer



300KHZ Ultrasonic Sensor



Ultrasonic Level Sensor



Underwater Ultrasonic Sensor



Flexible Sensor



Liquid Auto-Fill Control Module



Ultrasonic Flow Sensor Module



Atomizing IC



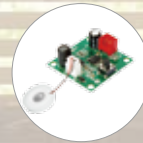
Essential Oil Atomizing Solution



Ultrasonic Atomizer



Atomizer for Air conditioner



Atomizing Module for Refrigerator



Atomizing Transducer



Microporous Atomizing Transducer



Ultrasonic Transducer



Buzzer



INTELLIGENT APPLIANCE

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300KHZ Ultrasonic Transducer

- Features
- Good directive
 - Excellent consistency

- Applications
- Sweeping robot



300KHZ Ultrasonic Sensor

- Features
- Small blind zone
 - Digital output

- Applications
- Sweeping robot



Model	HT0020
Appearance	
Frequency (kHz)	300
Beam Angle (°)	6~12
Driving voltage (Vp-p)	12
Capacitance (nF)	1.3±20%
Size (mm)	Φ16.0 x H12.0

Model	MU0002
Appearance	
Frequency (kHz)	300
Detection range (mm)	25~45
Voltage (V)	5
Communication method	UART

Ultrasonic Level Sensor

Features

- Continuous measurement
- High accuracy
- External Installation

Applications

- Tank level measurement
- Industrial equipment level measurement



Underwater Ultrasonic Sensor

Features

- Detection distance up to 8 meters
- Small blind zone
- Low power consumption
- IP68 protection class

Applications

- Robotic pool cleaner



Model	MU0005
Frequency (MHz)	2±0.1
Detection range (mm)	15~500
Measuring error (mm)	±1
Communication method	UART
Voltage (V)	5

Model	UD0001
Detection range (mm)	60~8000
Voltage (V)	5
Max. working depth (m)	3
Communication method	485/Serial port
Protection class	IP68

Liquid Auto-Fill Control Module

- Features**
- Non-contact measurement
 - Short response time
- Applications**
- Water dispenser、Coffee machine



Ultrasonic Rangefinder

- Features**
- Outstanding directivity
 - Non-contact measurement
- Applications**
- Robot
 - UAV



Model	UM0034-000	UM0034-002
Appearance		
Measuring range (mm)	20~250	20~1000
Enter response time (s)	≤3	≤3
Leave response time (s)	<2	<2
Working Current (mA)	≤12	≤9
Operating Temp (°C)	0~85	0~85

Model	UM0090	UP0152-000
Appearance		
Measuring range (mm)	150~1500	20~2500
Accuracy (mm)	10	10
Working Current (mA)	≤10	≤10
Power Supply (V)	5	5
Response time (ms)	<1	2

Flexible Sensor

Features

- Ultra-thin thickness between 200-400 microns, thinnest can be within 100 microns
- High sensitivity, large response
- Fast response and recovery in 10ms
- Wide range, linear operating range of 0-2 MPa

Applications

- Intelligent home center control system
- Intelligent appliance

Model	AW102
Detecttion pressure range (KPa)	0~250
Working voltage (V)	5±0.3
Working current (mA)	≤0.5
Communication method	IIC/UART/IO
Working temperature (°C)	0~+40

Liquid Auto-Fill Control Module

Features

- Non-contact measurement
- Short response time
- Continuous measurement for accurate control of water

Applications

- Water dispenser
- Coffee machine

Model	AU0009
Refresh frequency (Hz)	30
Working voltage (V)	3.3~5
Working current (mA)	≤25
Communication method	URAT

Ultrasonic Flow Sensor Module

Features

- High accuracy
- Approved for drinking water
- Digital output

Applications

- Smart water management system
- Leakage detection

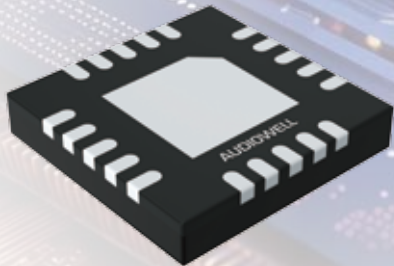


Model	FS0015
Appearance	
Diameter	DN10
Flow range (L/min)	0.5~30
Accuracy	±5%
Power supply (V)	5±0.5
Operating temp. (°C)	+0.1~+50
Max. Operating Pressure (Mpa)	1.5

Atomizing IC

Features:

- High precision swept frequency output
- Extra large storage space
- Built-in programming function
- Factory software setting
- Support secondary development



Model	ADW001
Package	QNF20
Operating voltage (V)	2.8-5.5
Operating temp. (°C)	-40~+85
Low power mode current (uA)	< 50
Memory	16K MPT 1KSRAM 432BYTE EEPROM
PFG	1.7/2.4/3.0/3.3MHz settable

Essential Oil Atomizing Solution

Features

- Intelligent frequency tracking, can atomize most kinds of essential oils
- No dilution, fast diffusion
- Corrosion resistant
- Integrated design, easy to install

Applications

- Aromatherapy diffuser



Ultrasonic Atomizer

Features

- Integrated transducer+circuit design and compact size
- High conversion efficiency, low power consumption and heat
- Built-in water level detection for anti-dry protection
- Digital signal control, easy extension development

Applications

- Humidifier
- Aromatherapy diffuser



Model	UM0122-006
Appearances	
Voltage (V)	24
Frequency (Mhz)	1.7±0.05
Current (mA)	900±50
Atomizing volume (mL/H)	≥300

Model	UM0129-001
Frequency (Mhz)	3.0±0.15
Atomization accuracy (mg)	1
Operating temp. (°C)	+5~+45
Product size (mm)	62 X 60 X 133
Average power (Maximum power) (W)	≤1 (8)

Ultrasonic Atomizer for Air conditioner

Features

- Intelligent start-stop atomization function, intelligent adjustment of the amount of atomization
- Integrated design, safe and reliable, IP65 protection level
- Low power consumption

Applications

- Air conditioner



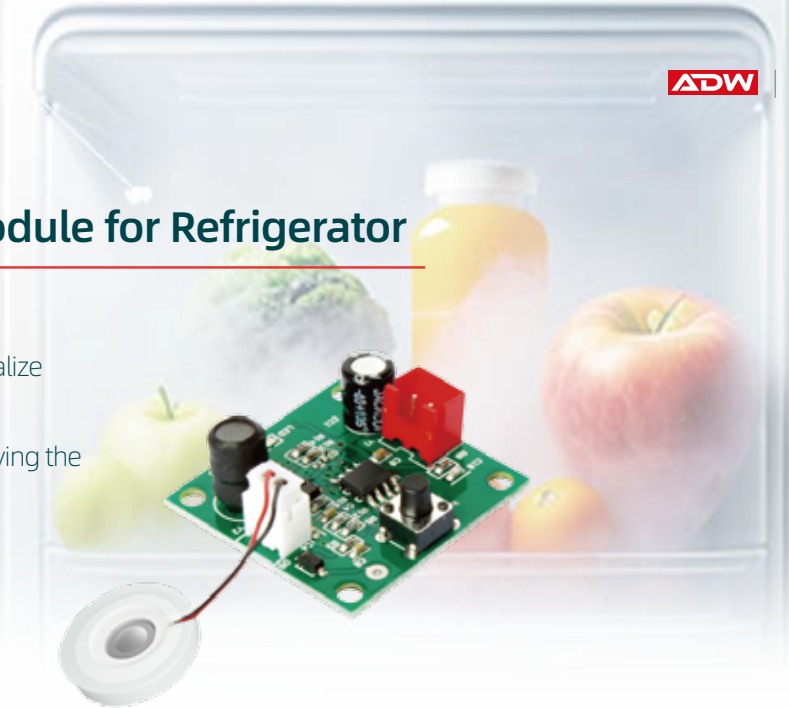
Ultrasonic Atomizing Module for Refrigerator

Features

- Intelligent freshness preservation, can realize automatic start and stop
- Anti-leakage and anti-condensation, solving the problem of low-temperature frosting.
- Through the food certification

Applications

- Smart refrigerator



Model	UM0122
Appearances	
Voltage (V)	24±1.2
Frequency (Mhz)	1.7
Atomizing volume (mL/H)	≥280
Protection class	IP65

Model	UP0204
Appearances	
Power supply	DC: 12±0.5V, ≤300mA
Transducer Frequency (kHz)	105±5
Atomizing volume (g/min)	0.2~0.5 (≤5°C)
Operating temp. (°C)	0~+45

Ultrasonic Atomizing Transducer

Features

- The stable temperature of transducer ensures stable work.
- Advanced electrode protective film is suitable for all kinds of different water.

Applications

- Humidifier
- Aroma Diffuser



Microporous Atomizing Transducer

Features

- Fine atomized particles
- High through hole rate, up to 97%
- Acid resistance, alkali resistance and cavitation corrosion resistance

Applications

- Humidifier
- Aroma Diffuser



Model	HL0020-004	HL0001-001	HL0013-085	HL0015-000	HL0017-010
Frequency (MHz)	2.4	3	1.7	1.7	2.4
Lead length (mm)	50±5	50±5	100±5	88±5	100±5
Terminal	XH-2P	XH-2P	/	/	/
Diameter (mm)	16	16	20	25	25

Model	HQ0047-016	HQ0064-015
Frequency (kHz)	109±5	110±5
Capacitance (pF)	3800±20%	3200±20%
Impedance (Ω)	≤80	≤180
Hole size (mm)	7±1	6.5±1
Diameter (mm)	20	20

Ultrasonic Sensor for Directional Speaker

Features

- Excellent directive, directional transmission
- Not affected by electromagnetic fields

Applications

- Directional speaker



Model	T00123-001	T00019-009	T00139-000
Frequency (KHz)	40±1	40±1	40±1
S.P.L (dB)	≥115	≥115	≥117
Max. input voltage (Vrms)	20	20	20
Static capacitance (pF)	2500±20%	2100±20%	2200±20%
Operating temp. (°C)	-20~+70	-20~+70	-40~+85
Size (mm)	Φ16.0 x H 12.0	Φ16.0 x H 12.0	Φ8.0 x H 6.0

Buzzer

Features

- Small size, easy to install
- Stable performance

Applications

- Home appliance alarm



Model	QJ0410-007	QJ0411-010
S.P.L (dB)	70(10cm)	85(10cm)
Capacitance (pF)	14000±30%	15000±30%
Max. input voltage (Vp-p)	25	20
Operating Temp. (°C)	-20~+105	-40~+85
Size (mm)	56.0×44.5 x 33.5	Φ13.8×6.4

Lineup

Products	Appearance	Sweeping robot	Robotic Pool Cleaner	Air purifier, HVAC	Air conditioner	Refrigerator			Humidifier	Aroma Diffuser	Directional speaker	Printer	Water management	Water dispenser
300KHZ Ultrasonic Sensor		■										■		
Liquid Level Sensor		■												■
Underwater Ultrasonic Sensor			■											
Liquid Auto-Fill Control Module						■								■
Ultrasonic Flow Sensor Module													■	
Atomizing IC									■	■				
Essential Oil Atomizing Solution										■				
Ultrasonic Atomizer				■	■				■	■				
Ultrasonic Atomizing Module						■			■	■				
Atomizing Transducer				■	■				■	■				
Microporous Atomizing Transducer						■			■	■				
CO2 Sensor				■										
Ultrasonic Transducer		■									■			
Buzzer		■	■	■	■				■	■		■		