

Version 1.0

# SPECIFICATION

## OF PRODUCTS

CUSTOMER : \_\_\_\_\_

PRODUCT NAME: ULTRASONIC FLOW SENSOR

PART NUMBER : PSC1.0M020102H2AD4-B0

Approved by	Checked by	Drawn by
刘云明 2016.12.2	陈伟 2016.12.2	朱华 2016.12.2

### **ZHEJIANG JIAKANG ELECTRONICS CO., LTD.**

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## **1 SCOPE**

This specification shall cover the characteristics of the ultrasonic flow sensor with the type PSC1.0M020102H2AD4-B0.

## **2 PART NO.**

PART NUMBERING	CUSTOMER PART NO	SPECIFICATION NO
PSC1.0M020102H2AD4-B0		

## **3 PART NUMBERING**

PS	C	1.00M	020102	H2	AD4	—	B0
①	②	③	④	⑤	⑥		⑦

No.	Code	Explanation
①	PS	Ceramic sensor
②	C	Ultrasonic
③	1.00M	Nominal Frequency
④	020102	Size
⑤		
⑥	H2	Ceramic Material Code
⑦	AD4	Special Requirement
⑧	B0	Bulk Package

## **4 OUTLINE DRAWING AND DIMENSIONS**

4.1 Appearance: No visible damage and dirt.

4.2 The products conform to the RoHS directive and national environment protection law.

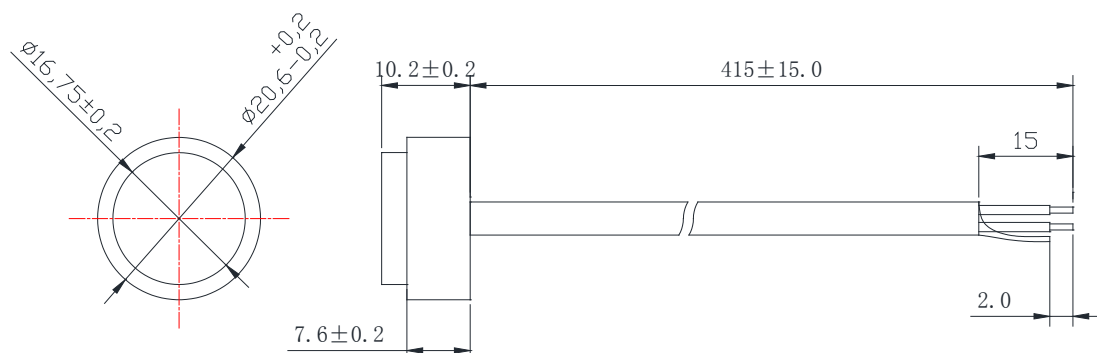
4.3 Dimensions (Unit: mm)

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## 5 ELECTRICAL SPECIFICATIONS

Items	Unit	Content
Nominal Frequency (Fn)	MHz	$1.0 \pm 0.10$
Resonance Impedance (R0)	$\Omega$	200~450
Static Capacitance (CP)	pF	$1300 \pm 20\%$

## 6 TEST

### 6.1 Test Conditions

Parts shall be measured under a condition (Temp.: $25^{\circ}\text{C} \pm 3^{\circ}\text{C}$ , Humidity: 40%~70% R.H).

### 6.2 Test Methods

Item	Test Methods
Center Frequency (Fr)	Measuring thickness vibration mode, Agilent 4294A Impedance analyzer
Resonance Impedance (R0)	
Static Capacitance (CP)	Digital Electric Bridge (at 1kHz/1V)

## 7 PACKAGE

Each package has 4 inner boxes, each inner box has 10 bags, each bag has 15 pieces of ultrasonic flow sensors.

## 8 OTHER

8.1 The main composition of the sensor chip is lead zirconium titanate ceramics.

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Please pay attention to the local environmental protection regulations when the waste is abandoned.

8.2 This specification mentions the quality of the component as a single unit. Please ensure the component is thoroughly evaluated in your application circuit.

8.3 Sensor leads, red as the positive, white as the negative. Please connect the earth wire to the metal case.

8.4 Please return one of these specifications after your signature of acceptance.

8.5 When something gets doubtful with this specification, we shall jointly work to get an agreement.

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