

Version 1.0

QJ—16927-40—2022

SPECIFICATION

OF PRODUCTS

CUSTOMER : _____

PRODUCT NAME: _____ ULTRASONIC FLOW SENSOR _____

PART NUMBER : _____ PSC1.0M014085H2CB0-B0 _____

Approved by	Checked by	Drawn by
陶锋烨 2022.6.23	黄国华 2022.6.23	胡余平 2022.6.23

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Approval Sheet	
Customer	
Supplier P/N	PSC1.0M014085H2CB0-B0
Customer P/N	

Customer's Approval Certificate	
Checked & Approval by	
Date	

Version	Reason Of Modification	Modification	Drawn	Checked	Approval	Date

Please return this copy as a certification of your approval.

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1 SCOPE

This specification shall cover the characteristics of the ultrasonic flow sensor with the type PSC1.0M014085H2CB0-B0.

2 PART NO.

PART NUMBERING	CUSTOMER PART NO	SPECIFICATION NO
PSC1.0M014085H2CB0-B0		

3 PART NUMBERING

PS	C	1.0M	014085	H2	CB0	—	B0
①	②	③	④	⑤	⑥		⑦

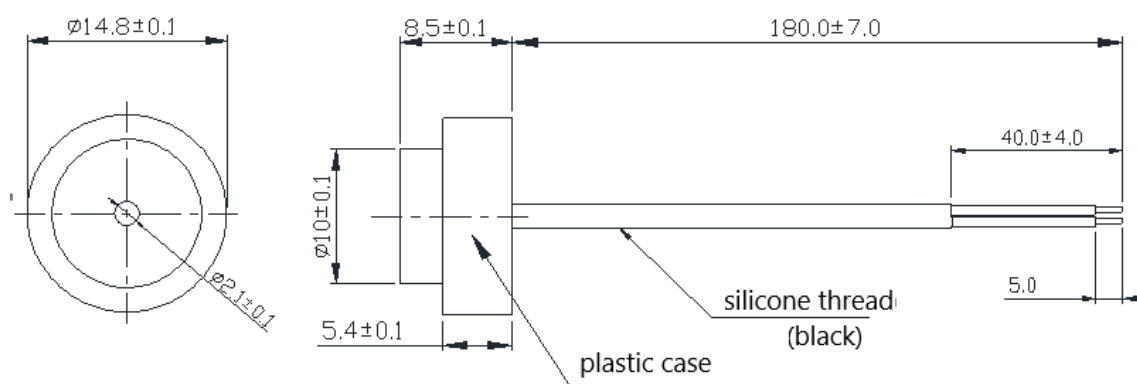
No.	Code	Explanation
①	PS	Ceramic sensor
②	C	Ultrasonic
③	1.0M	Nominal Frequency
④	014085	Size
⑤	H2	Ceramic Material Code
⑥	CB0	Special Requirement,
⑦	B0	Bulk Package

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
Center Frequency (Fr)	MHz	1.0 ± 0.1
1MHz Impedance (R0)	Ω	$1200 \pm 20\%$
Static Capacitance (Cp)	pF	$600 \pm 20\%$
Operating Temperature	°C	5~70
Storage Temperature	°C	-20~80
Withstand Voltage	V	36
Water Pressure Resistance	MPa	3.5

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
1MHz Impedance (R0)	
Static Capacitance (Cp)	Digital Electric Bridge, (at 1kHz/1V)
Withstand Voltage	36V voltage, continue to apply the voltage for 1 minute, test after 2 hours of recovery, and there is no change in performance
Water Pressure Resistance	The sensor is installed in the pipe section, and the pressure of 3.5Mpa is applied at the inlet for 3min. After 2 hours of recovery, the test shows that the sensor has no fault

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7 PACKAGE

Each package has 4 inner boxes, each inner box has 300 pieces of ultrasonic flow sensors.

8 OTHER

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