

Version 1.1

QJ—16921-93—2017

SPECIFICATION

OF PRODUCTS

CUSTOMER : _____

PRODUCT NAME: ULTRASONIC FLOW SENSOR

PART NUMBER : PSC1.0M020160H2AD1-B0

| Approved by | Checked by | Drawn by |
|------------------|------------------|------------------|
| 刘云明 2017.9.12 | 黄国华 2017.9.12 | 胡余平 2017.9.12 |

ZHEJIANG JIAKANG ELECTRONICS CO., LTD.

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| Approval Sheet | |
|-----------------------|-----------------------|
| Customer | |
| Supplier P/N | PSC1.0M020160H2AD1-B0 |
| Customer P/N | |

| Customer's Approval Certificate | |
|--|--|
| Checked & Approval by | |
| Date | |

| Version | Reason Of Modification | Modification | Drawn | Checked | Approval | Date |
|---------|------------------------|-----------------------------|-------|---------|----------|------------|
| 1.1 | customer requirements | 4.3 Added wire requirements | 胡余平 | 黄国华 | 陶锋烨 | 2019.11.06 |
| | | | | | | |
| | | | | | | |

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 PSC1.0M020160H2AD1-B0.

2 PART NO.

| PART NUMBERING | CUSTOMER PART NO | SPECIFICATION NO |
|-----------------------|------------------|------------------|
| PSC1.0M020160H2AD1-B0 | | |

3 PART NUMBERING

| | | | | | | | |
|----|---|-------|--------|----|-----|---|----|
| PS | C | 1.00M | 020160 | H2 | AD1 | — | B0 |
| ① | ② | ③ | ④ | ⑤ | ⑥ | | ⑦ |

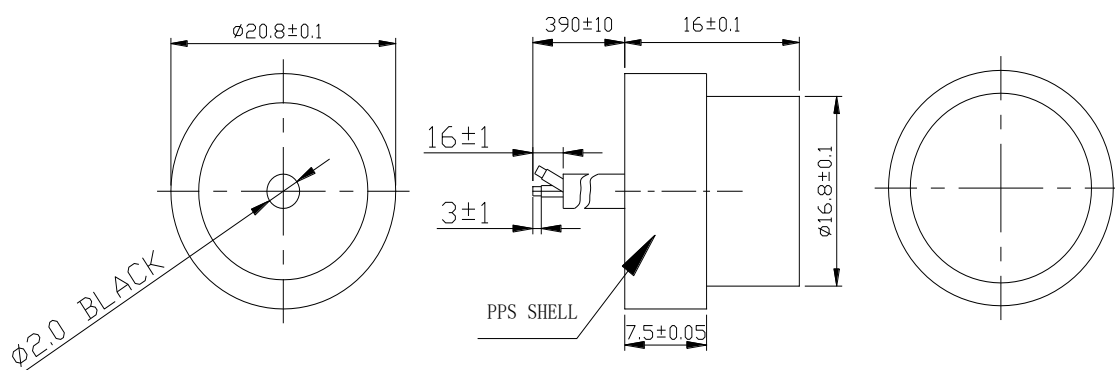
| No. | Code | Explanation |
|-----|--------|-----------------------|
| ① | PS | Ceramic sensor |
| ② | C | Ultrasonic |
| ③ | 1.00M | Nominal Frequency |
| ④ | 020160 | Size |
| ⑤ | | |
| ⑥ | H2 | Ceramic Material Code |
| ⑦ | AD1 | Special Requirement |
| ⑧ | B0 | Bulk Package |

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 ± 0.1 |
| Resonance Impedance (R0) | Ω | 150~350 |
| Static Capacitance (Cp) | pF | $1200 \pm 20\%$ |

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) |

Suggestions: on installation:

Each pair of sensors shall be installed with the same logo direction, bilateral symmetry、No pressure on the glue and the line、O-ring shall not be deformed during installation、The size of the reflecting plate should be larger than the transmitting surface of the sensor.

7 PACKAGE

Each package has 4 inner boxes, each inner box has 15 bags, each bag has 10pieces 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

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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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