

# SPECIFICATION

## FOR

## APPROVAL

Customer : \_\_\_\_\_

Description : \_\_\_\_\_ Magnetic Transducer \_\_\_\_\_

Universal Model No. : \_\_\_\_\_ UGCM0903E3PN \_\_\_\_\_

Universal ERP No. : \_\_\_\_\_

Customer's Model No. : \_\_\_\_\_

| ISSUE    | CHECK    | APPROVAL   | CUSTOMER |
|----------|----------|------------|----------|
| ZhuYu    | ShiCong  | WangXueWen |          |
| 24.05.24 | 24.05.24 | 24.05.24   |          |



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## REVISION HISTORY

[illegible]

# SPECIFICATIONS

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## 1. ELECTRICAL AND ACOUSTICAL SPECIFICATION

|      | Item                       | Unit            | Specifications |
|------|----------------------------|-----------------|----------------|
| 1-1  | Rated Voltage(Square Wave) | V               | 3              |
| 1-2  | Operating Voltage          | V               | 2-5            |
| 1-3  | * Rated Current(Max)       | mA              | 80             |
| 1-4  | * Min Sound Output at 10cm | dB              | 85             |
| 1-5  | * Resonant Frequency       | Hz              | 2700           |
| 1-6  | Coil Resistance            | Ω               | 16±4           |
| 1-7  | Operating Temperature      | °C              | -30~+70        |
| 1-8  | Storage Temperature        | °C              | -40~+85        |
| 1-9  | Weight                     | g               | 1.0            |
| 1-10 | Housing Material           | PBT             |                |
| 1-11 | Lead Pin Material          | Red Copper(DSn) |                |
|      |                            |                 |                |
|      |                            |                 |                |
|      |                            |                 |                |
|      |                            |                 |                |
|      |                            |                 |                |

\* Value Applying at Rated Voltage(resonant frequency, 1/2 duty, square wave)

|          |             |          |       |          |              |
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2.ENVIRONMENTAL TEST

|     | Item                  | Specifications                                                                                                                               |
|-----|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| 2-1 | Storage in High temp. | Storage in +85°C±2°C test box for 96 hours, then expose to the room temperature for 2 hours without applying power.                          |
| 2-2 | Storage in Low temp.  | Storage in -40°C±2°C test box for 96 hours, then expose to the room temperature for 2 hours without applying power.                          |
| 2-3 | Storage in Humidity   | Storage in +40°C±2°C 90-95%RH test box for 96 hours, then expose to the room temperature for 2 hours without applying power.                 |
| 2-4 | Thermal cycle test.   | <div> <p>Make this test for 5 cycles without applying power,then expose to the room temperature for 2 hours.</p> </div>                      |
| 2-5 | Vibration test        | <div> <p>Amplitude:1.5mm<br/>Time :1min/axis</p> <p>Make this test for the directions of X,Y, Z for 2 hours each (total 6 hours).</p> </div> |
| 2-6 | Drop test             | Free drop a unit from the height 100cm to the surface of 10mm thick board ,three directions(X,Y,Z).                                          |
| 2-7 | Solderability test    | Soldering temp.:260±5°C<br>Heat applying time: 3±0.5sec.                                                                                     |

PASS CRITERION :

After these tests , the change of S.P.L shall be within ±5 dB .

|          |             |          |       |          |             |
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Model No.

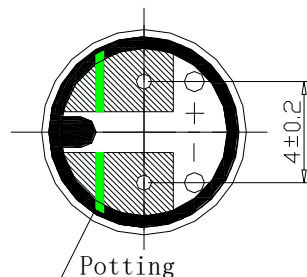
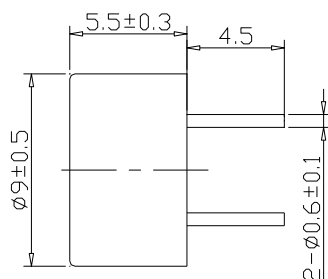
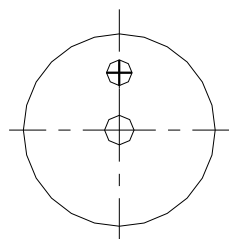
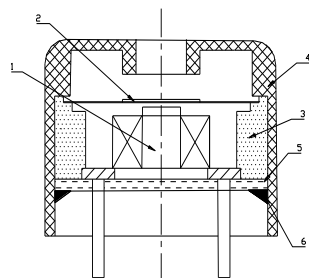
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## 4.DIMENSIONS

Unless otherwise specified,tolerance:±0.5(unit:mm)



|                                    |         |
|------------------------------------|---------|
| Cadmium(Cd)/Cadmium Compounds      | <100ppm |
| Lead(Pb)/ Lead Compounds           | <800ppm |
| Mercury(Hg) / Mercury Compounds    | <800ppm |
| Hexavalent-Chromium(Cr6+)Compounds | <800ppm |
| PBB                                | <800ppm |
| PBDE                               | <800ppm |

1) All parts must be meet to ROHS2.0.

2) Wave solder allowed and wash not allowed.

|          |           |      |                 |        |
|----------|-----------|------|-----------------|--------|
| 6        | Potting   |      | Epoxy           |        |
| 5        | PCB       | 1    |                 |        |
| 4        | Housing   | 1    | PBT             |        |
| 3        | Core      | 1    | Ferrite         |        |
| 2        | Diaphragm | 1    | Iron            |        |
| 1        | Coil Part | 1    | Copper And Iron |        |
| Part No. | Part Name | Q'TY | Material        | Remark |

|          |             |          |       |          |              |
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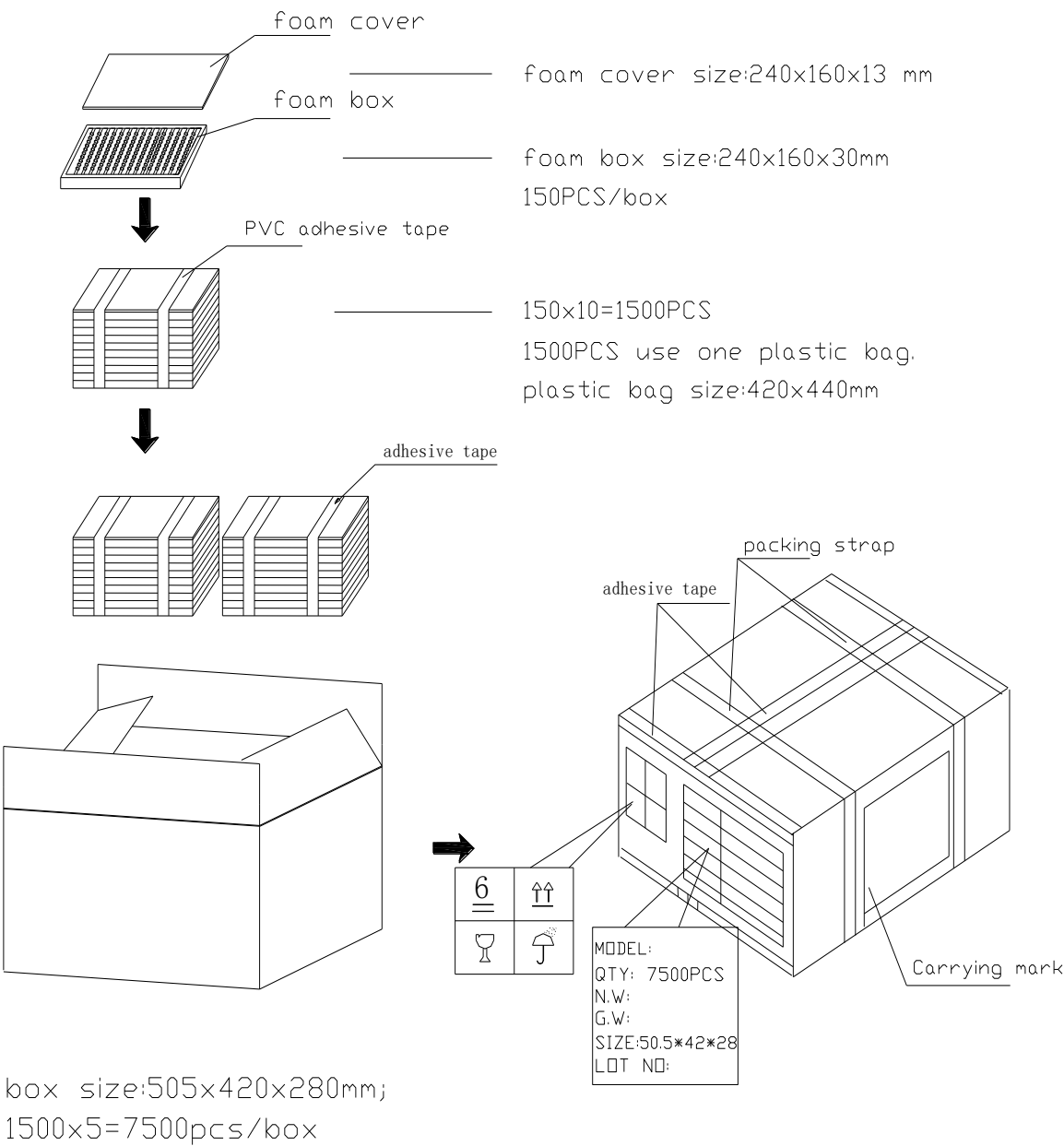
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## 5.PACKING



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