



SPECIFICATION OF PRODUCT

産 品 承 認 書

DESCRIPTION : SPEAKER

CHENGXUN P/N: PMB20P

| CUSTOMER | APPROVER | CHECKER |
|----------|----------|---------|
| | | |

PMB 피 엠 비 일 렉 텍
PMB ELECTECH
상표등록 <제40-0729433호>

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Specification for speaker

1. CONDITION.

Test and measurement will be carried out under normal condition of temperature within 5°C to 35°C, relative humidity within 45% to 85% and air pressure of 860 mbar to 1060 mbar.

Should uncertainly arise in data obtained from the above atmosphere, control of temperature at 20°C ± 2°C and relative humidity within 60% and 70%, with air pressure remaining unchanged, to be enforced.

2. ELECTRICAL AND ACOUSTICAL SPECIFICATION.

| | | |
|------|--|---|
| 2-1 | Rated Input Power. | 0.25W |
| 2-2 | Max Input Power. | 0.5W |
| 2-3 | Rated Impedance. | 8Ω ± 15% |
| 2-4 | Sound Pressure Level. (S.P.L) | 92dB(0.1W/0.1m) ± 3 dB at AVE 1.0K 1.2K 1.5 2.0K Hz |
| 2-5 | Resonance Frequency (Fo). | 1300±20%Hz |
| 2-6 | Frequency Range. | F0~5kHz. |
| 2-7 | Distortion | Less than 5% at 1KHz input Rated Power |
| 2-8 | Magnet | Rare earth permanent (NdFeB) magnet Φ8*1m |
| 2-9 | Buzz, Rattle, etc. | Should not be audible at 1.41V sine Wave between Fo to 20KHz |
| 2-10 | Polarity | When positive voltage is applied to the terminal marked (+), diaphragm should move to the front. |
| 2-11 | Appearance | Should not exist any obstacle to be harmful to normal operation; damages, cracks, rusts and distortions, etc. |
| 2-12 | Weight. | g |
| 2-13 | Temperature | Operating temperature: -20°C to +60°C Storage temperature: -30°C to +70°C |

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3. MEASURING METHOD

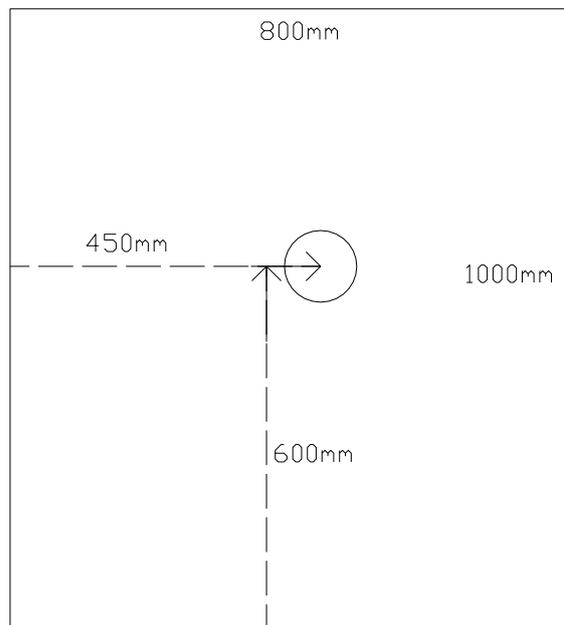
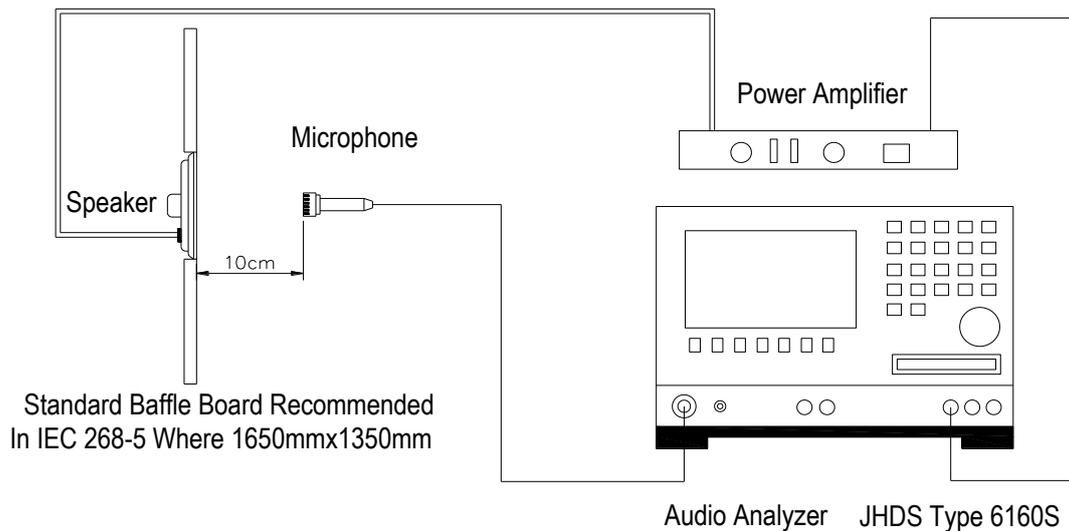


FIG.1

3. 1Block Diagram For Measurement Method.

Standard test condition of speaker



Specification for speaker

4. Frequency Response :

The swept sine-wave frequency response of a Loud speaker should ideally not deviate more than indicated per Fig.3

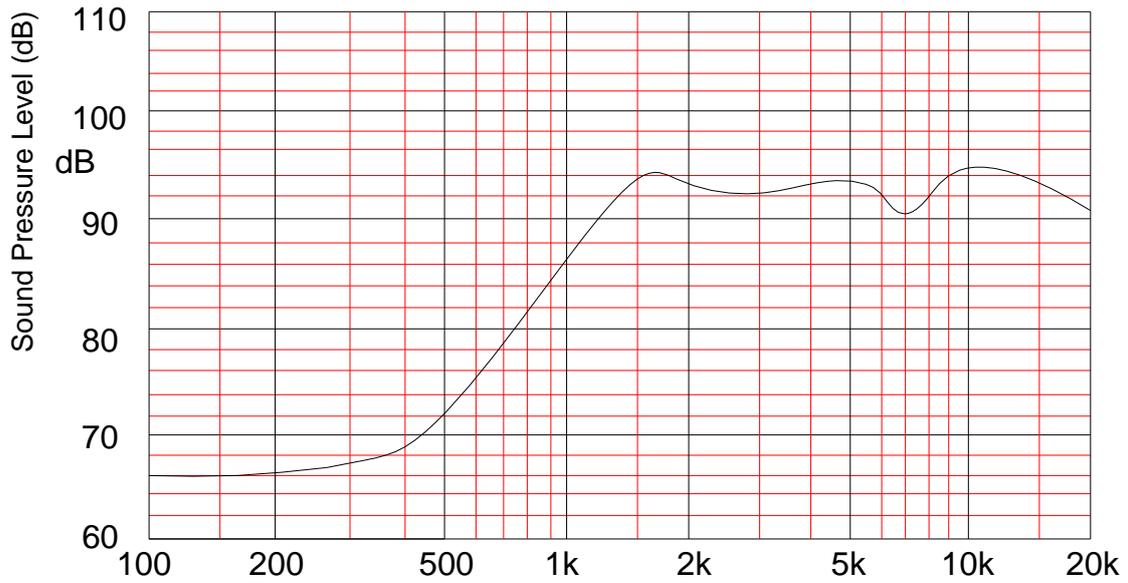
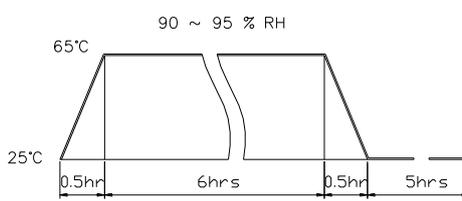


FIG.3

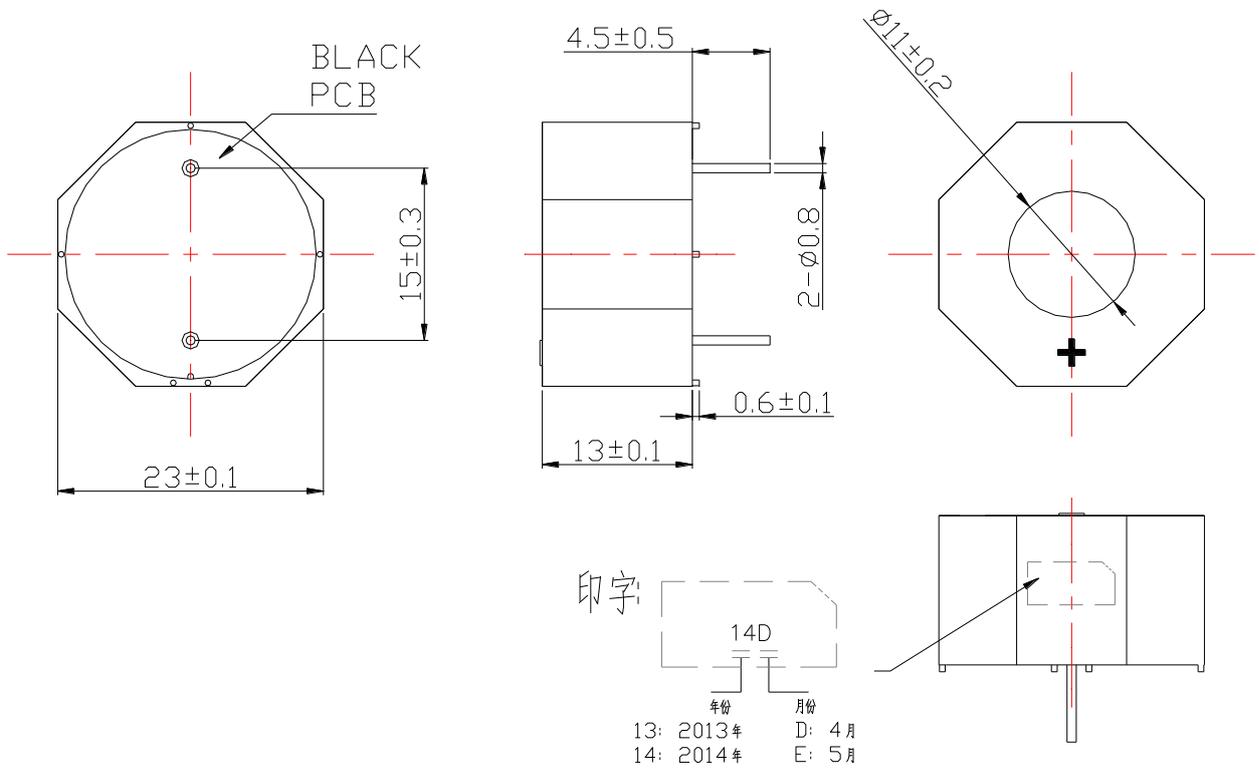
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5. ENVIRONMENT TEST

| ITEM | | SPECIFICATIONS |
|---|--------------------------------|---|
| 01 | High temp. Test | Keep 96 hours at $+80^{\circ}\text{C} \pm 3^{\circ}\text{C}$ and leave 6 hours in normal temperature and then check |
| 02 | Low temp. Test | Keep 96 hours at $-40^{\circ}\text{C} \pm 3^{\circ}\text{C}$ and leave 6 hours in normal temperature and then check |
| 03 | Humidity test | Keep 96 hours at $+40^{\circ}\text{C} \pm 3^{\circ}\text{C}$ relative humidity 92-95% and leave 3 hours in normal temperature and then checked. |
| 04 | Temp./Humidity cycle | <p>The part shall be subjected 5 cycles. One cycle shall be 6 hours and consist of;</p>  <p style="text-align: center;"> $90 \sim 95 \% \text{ RH}$ 65°C 25°C 0.5hr 6hrs 0.5hr 5hrs </p> |
| 05 | Vibration | 10~55~10Hz sin-wave sweep 15min. 5G(constant) X,Y, Z 3 direction. 2 hours each, total 6 hours. |
| 06 | drop test | Drop the speakers contained in normal box onto the board 40mm thick 10 times from the height of 75cm |
| 07 | Load test | Rate Power Pink noise is applied for 96hours at room temp |
| 08 | Lead Wire Pull Strength | <p>The pull force shall be applied to double lead wire :</p> <p>Horizontal 3.0N(0.306kg) for 30 seconds. Vertical 2.0N(0.204kg) for 30 seconds.</p> |
| <p>Criterion : After these test , the change of S.P.L shall be within $\pm 3 \text{ dB}$</p> | | |

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6. Dimensions

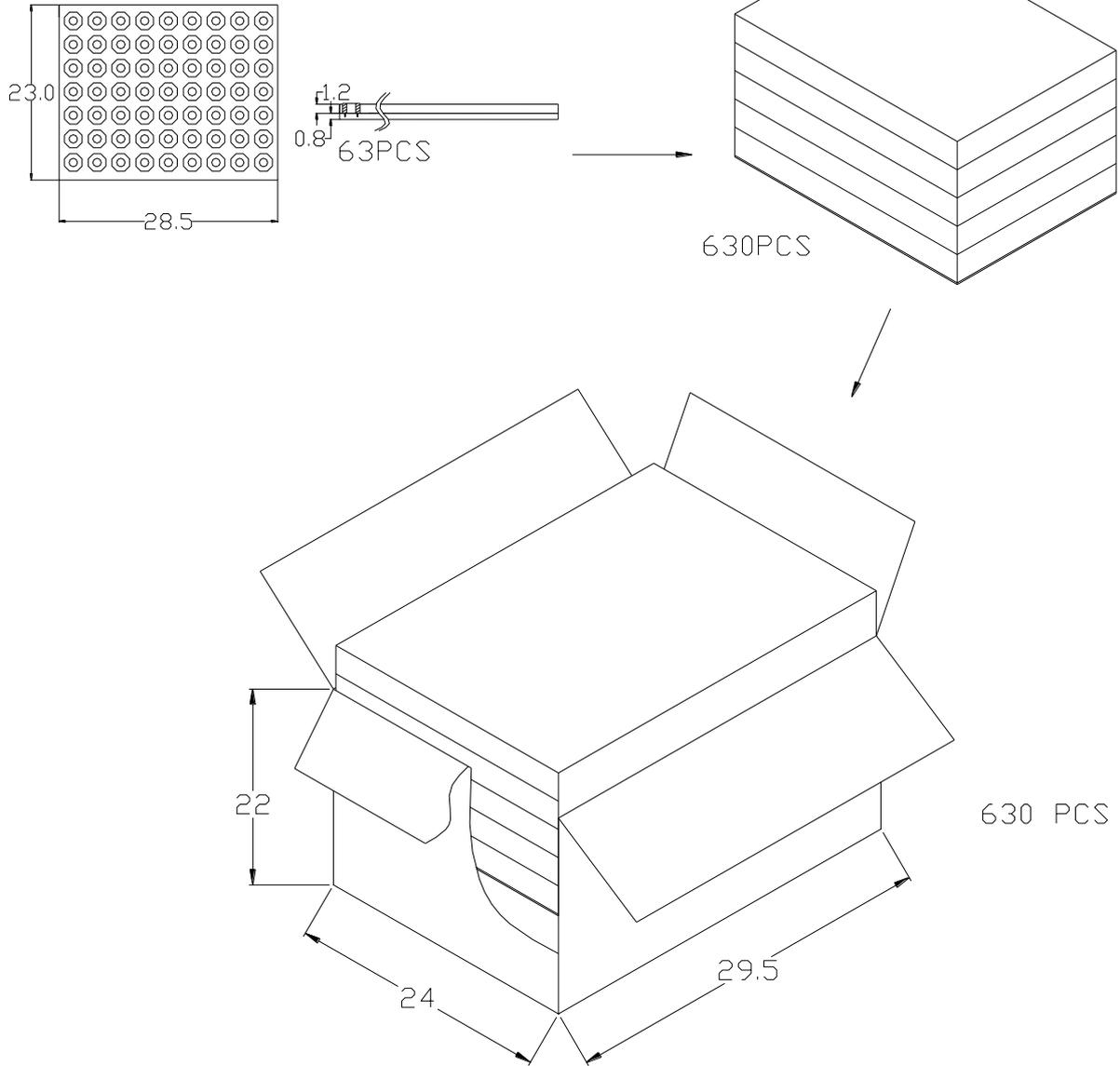


| 8 | | | | |
|--|--------------|------|----------|--------|
| 7 | Housing | 1 | PBT | |
| 6 | Diaphragm | 1 | Pet | |
| 5 | VOICE COIL | 1 | Cu | |
| 4 | Plate | 1 | SPCC | |
| 3 | Magnet | 1 | NdFeB | |
| 2 | PCB Terminal | 1 | FR4 | |
| 1 | Frame | 1 | Spcc | |
| The material must be meet to GU-001 | | | | |
| PART NO. | PART NAME | Q'TY | MATERIAL | REMARK |

Unit:mm Tol:±0.5

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7.PACKING



Unit:cm