

|  |             |                                   |         |            |
|--|-------------|-----------------------------------|---------|------------|
|  | Part name   | Ferrite Magnetic Speaker(Plastic) | Date    | 2026-09-10 |
|  | Part number | S-23-16R1W-CY01A                  | Edition | V2.0       |
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## 1.TEST CONDITION（测试条件）

Unless otherwise specified,The standard of range atmospheric conditions for making measurementsand tests as follows（无特定要求时如下述测试条件）：17°C~25°C，45%~85%RH，860HPA~1060HPA.

If there is no doubt about results,measurement shall be made with in the following limits.

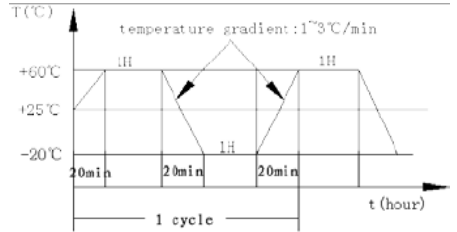
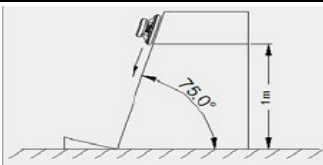
（当判断有疑问的场合如下述测试条件）：20°C±3°C，60%~70%RH，860HPA~1060HPA.

## 2. SPECIFICATION OF SPEAKER MODE（喇叭模式规格）

|      |                                  |                                                                                                                                 |                                      |
|------|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| 2.1  | Rated IMPEDANCE<br>额定阻抗          | 16Ω±15%                                                                                                                         | At 1KHz                              |
| 2.2  | RESONANCE FREQUENCY<br>最低共振周波数   | 1000 ±20%Hz                                                                                                                     | At 1.26V                             |
| 2.3  | Rated Power<br>额定功率              | 1W                                                                                                                              | At 4V                                |
| 2.4  | MAX POWER<br>最大功率                | 1W                                                                                                                              | At 4V                                |
| 2.5  | Outerput S.P.L<br>出力音压           | 90 ±3dB at 0.1W/0.1M                                                                                                            | At0.6.0.8.1.0.1.2.1.5.2.0KHz average |
| 2.6  | Frequency response curve<br>实效频宽 | F0 ~ 5KHz                                                                                                                       | Deviation -10db from average S.P.L   |
| 2.7  | Rattle & Buzz<br>异常音检查           | should not be audible buzz and<br>rattle (无异常声音)                                                                                | Sine WAVE(正弦波入力)<br>at 4V/350~2KHz   |
| 2.8  | Distortion<br>失真                 | ≤5%THD                                                                                                                          | At 1kHz 0.1M/0.1W                    |
| 2.9  | Polarity<br>极性                   | When a positive D.C current is applied to the voice coil terminal marked +,the diaphragm shall move forward.(端子板的正极通入电流，振膜向前运动) |                                      |
| 2.1  | Magnet Size<br>磁铁                | NdFeB                                                                                                                           |                                      |
| 2.11 | Net Weight<br>重量                 |                                                                                                                                 |                                      |

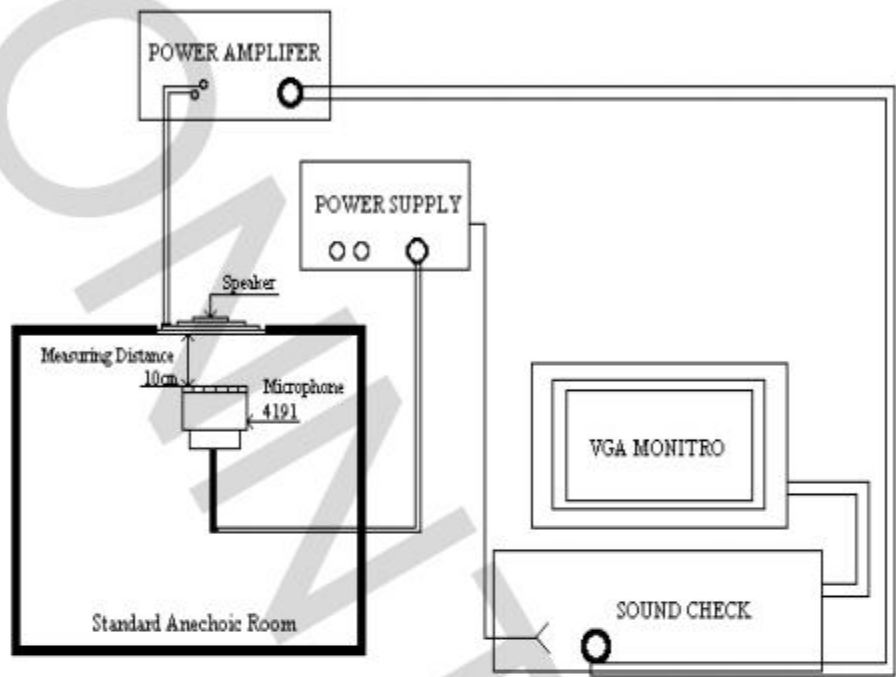
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### 3.ENVIRONMENTAL CHARACTERISTICS (信赖性试验)

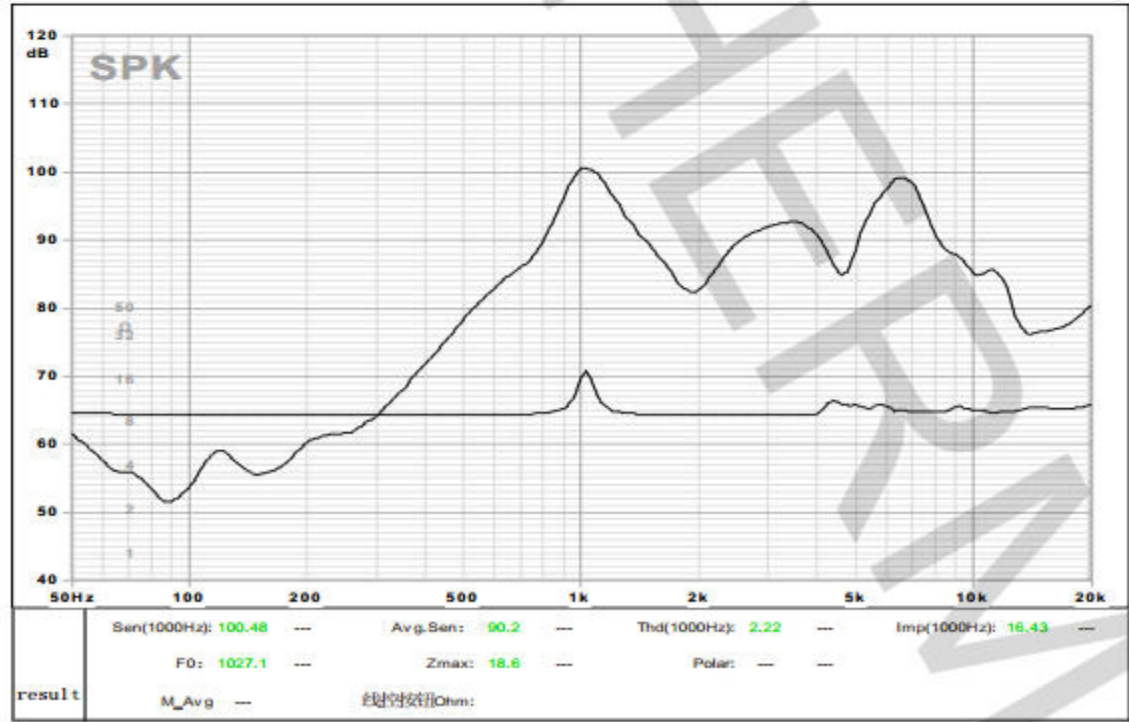
|      |                                  |                                                                                                                                                                                                                                                                                    |
|------|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3.1  | High temperature test<br>耐热试验    | + 60±3°C duration 48 hours ,then removal back to normal temperature for 2 hours (+60±3°C, 48小时实验后, 常温放置2小时)                                                                                                                                                                        |
| 3.2  | LOW temperature test<br>低温实验     | - 20±3°C duration 48 hours ,then removal back to normal temperature for 2 hours (-20±3°C, 48小时实验后, 常温放置2小时)                                                                                                                                                                        |
| 3.3  | Humidity test<br>耐湿试验            | Temperature +40±3°C, relative humidity 90~95%, duration ,96 hours ,then removal back to normal temperature for 2 hours (温度+40±3°C, 相对湿度90~95%, 96小时实验后, 常温放置2小时)                                                                                                                   |
| 3.4  | Loudness test<br>连续负荷试验          | The products shall not be no sound/Buzz&Rattle/different volume/exceptional diversification of frequency response curve in testing and after testing process for a continuous working of 48H at a rated 1W white noise 。<br>1W的白噪声下连续工作48小时,测试中和试验后不能出现任何无声/杂音/音量大小不均/频率响应曲线等异常变化。 |
| 3.5  | Temperature cycle test<br>温度周期试验 | Temperature: -20°C to +60±3°C<br>Duration : 2 hours<br>Cycl :2cycle<br>温度-20°C 2小时转高温 , +60°C±3°C 2小时为一周期共试验2周期<br>                                                                           |
| 3.6  | Drop test<br>跌落试验                | The speaker shall be dorp 5 times as shown in the figure and Cacophony must be normal (如图所示5次跌落实验后外观和声音无异常)<br>                                                                               |
| 3.7  | Insulation resistance<br>绝缘阻抗    | A VOLTAGE OF 100V.d.c shall be applited for 1 min between a terminal and a frame ,after which measurement shall be made ,2MΩ OR MORE (D. C. 100V, 1分钟后端子与支架间2MΩ以上)                                                                                                                 |
| 3.8  | Vibration test<br>振动试验 (捆包状态)    | 10-55Hz/min<br>Amplitude: 1.5mm<br>Duration: 2hours each axes                                                                                                                                                                                                                      |
| 3.9  | Operating temperature<br>工作温度    | - 20°C TO+60°C                                                                                                                                                                                                                                                                     |
| 3.10 | torage temperature<br>储存温度       | - 25°C TO+60°C                                                                                                                                                                                                                                                                     |

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4.MEASURING CIRCUIT (SPEAKER) 测试回路（喇叭模式）



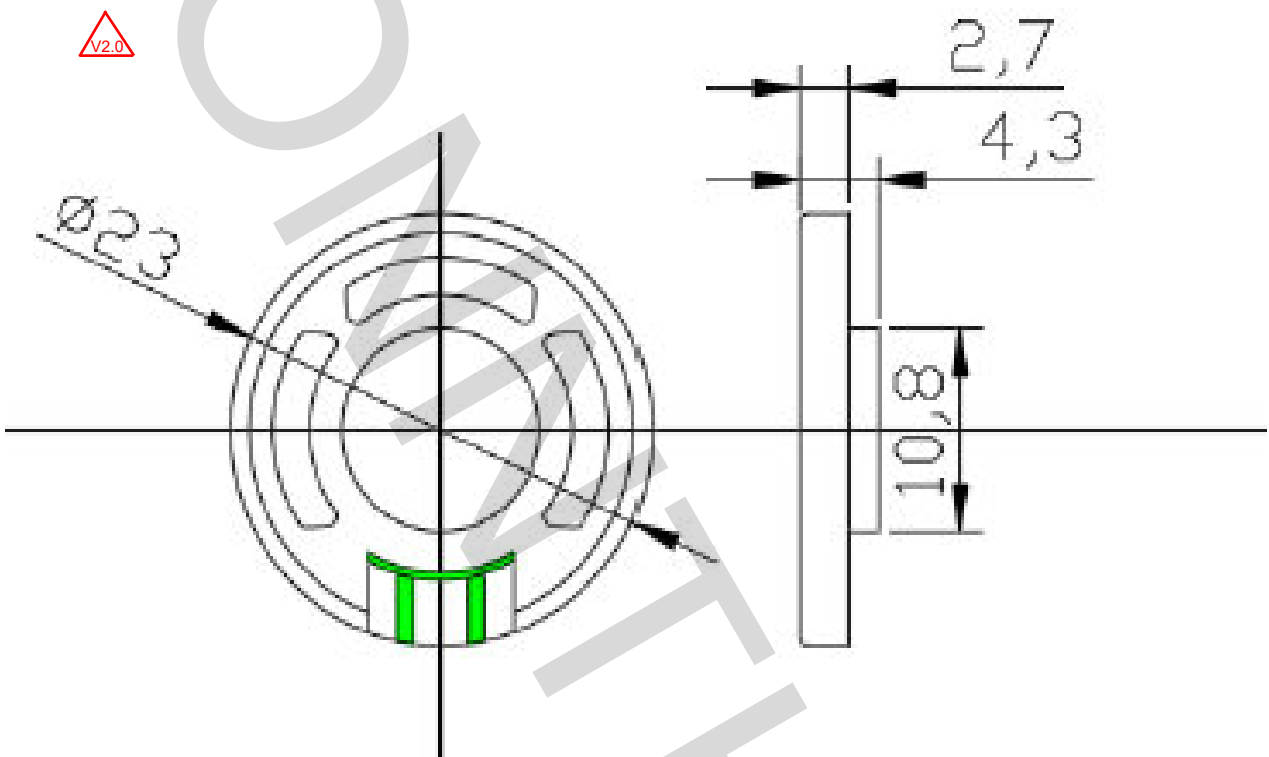
5.FREQUENCY CURVE (频响曲线图)



|  |             |                                   |         |            |
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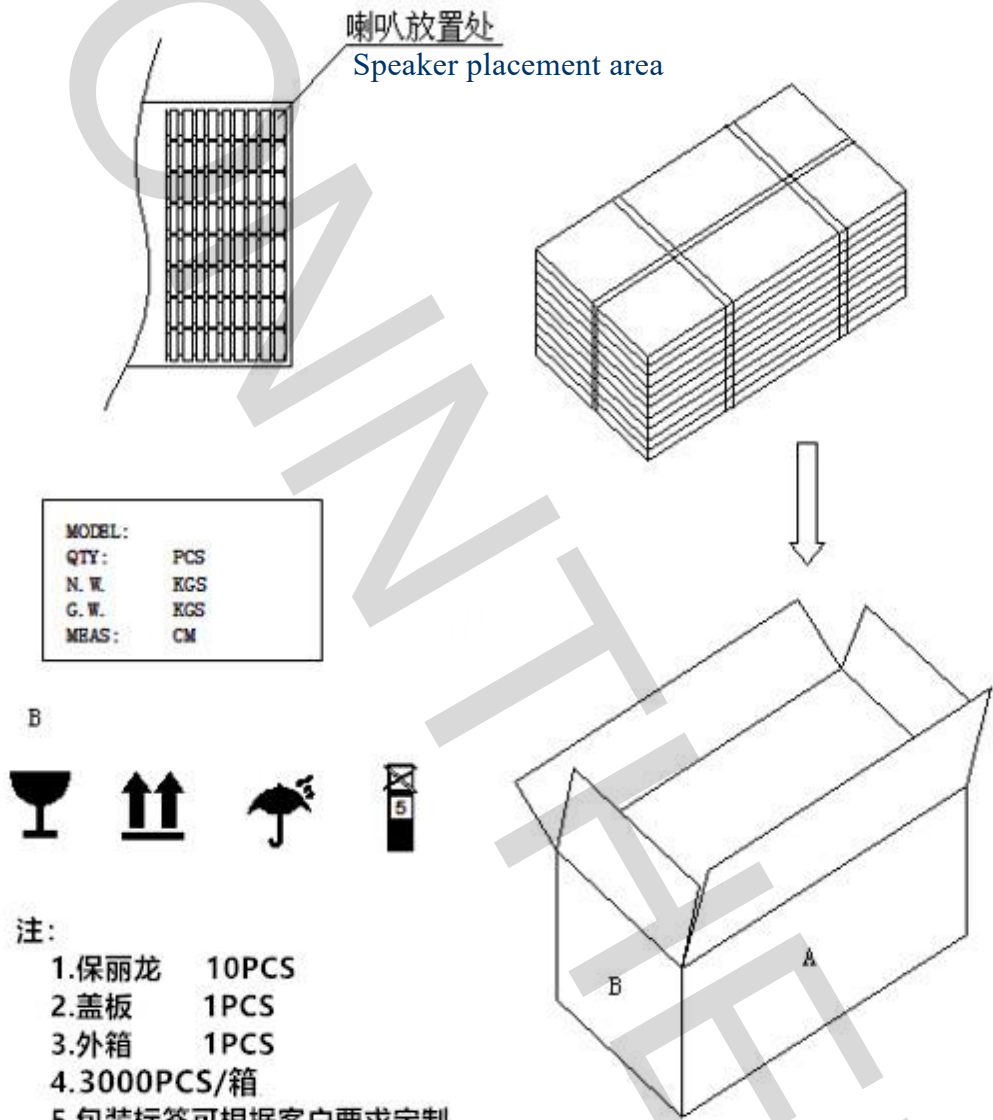
6.DIMENSIONS (尺寸)

Unless otherwise specified, tolerance:  $\pm 0.3$  (unit: mm)



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7.PACKAGING PARAMETERS（包装参数）



注:

- 1.保丽龙 10PCS
- 2.盖板 1PCS
- 3.外箱 1PCS
- 4.3000PCS/箱
- 5.包装标签可根据客户要求定制

Note:

- 1、Foam (Polystyrene): 10 PCS
- 2、Cover Plate: 1 PCS
- 3、Outer Carton: 1 PCS
- 4、3000 PCS per carton
- 5、Packaging labels can be customized according to customer requirements.