

SPECIFICATION FOR APPROVAL

承 认 书

Description : Speaker

Vendor's Part No. : S50-0810

Customer's. Part No. :

Serial No. :

Version No. : 1.0

CUSTOMER'S APPROVED SIGNATURE		

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Approved By	Checked By	Made By
YAO 2023.12.02	MING 2023.12.02	LI 2023.12.02

A. CHANGE RECORD 变更记录

变更记录 Change History list				
版本 Version	变更描述 Change Description	核对 Checked	审核 Approved	日期 Date
1.0	首次发行	MING	YAO	2023. 12. 02

B. CONDITION 条件

Test and measurement will be carried out under normal condition of temperature within 5℃ to 35℃, relative humidity within 45% to 85% and air pressure of 860 mbar to 1060 mbar.
测试和测量将在正常温度在 5℃至 35℃，相对湿度在 45%至 85%，空气压力在 860mbar 至 1060mbar 的正常条件下进行。

Should uncertainly arise in data obtained from the above atmosphere, control of temperature at 20℃±2℃ and relative humidity within 60%and 70%, with air pressure remaining un- changed, to be enforced.
如果在上述大气中获得的数据出现不确定，应强制将 20℃±2℃的温度和相对湿度控制在 60%和 70%以内，气压保持不变。



C. SPECIFICATION 规格

No.	Item	Specification
1	Rated Input Power 额定输入功率	1.0W
2	Max Input Power 最大输入功率	1.5W
3	Dimension 尺寸	$\Phi 50 \times H8.0\text{mm}$
4	Rated Impedance 额定阻抗	$8.0\Omega \pm 15\%$ at 1.0V
5	Sound Pressure Level 声压级	103 dB(0.1W/0.1m) ± 3 dB at AVE 0.5K, 0.6K, 1.8K, 2.0K(HZ).
6	Resonance Frequency (Fo) 共振频率	$370 \pm 20\%$ Hz at 1V
7	Frequency Range 频率范围	F0~20kHz
8	Distortion 失真	Less than 5% at 1KHz input 0.1W
9	Buzz, Rattle, etc 噪音	Should not be audible at 2.83V sine Wave between 200Hz to 4KHz 2.83V 正弦波测在 200Hz 到 4KHz 之间无杂音
10	Polarity 极性	When positive voltage is applied to the terminal marked (+), diaphragm should move to the front. 当对终端标记 (+) 施加正电压时, 隔膜应向前面移动。
11	Appearance 外观	Should not exist any obstacle to be harmful to normal operation; damages, cracks, rusts and distortions, etc. 不应存在任何不利于正常运行的障碍; 损坏、裂纹、锈蚀、变形等。
12	Weight 重量	12.9 g
13	Temperature 温度	Operating temperature: -20°C to $+70^{\circ}\text{C}$ Storage temperature: -30°C to $+80^{\circ}\text{C}$



D. MEASURING METHOD 测量方法

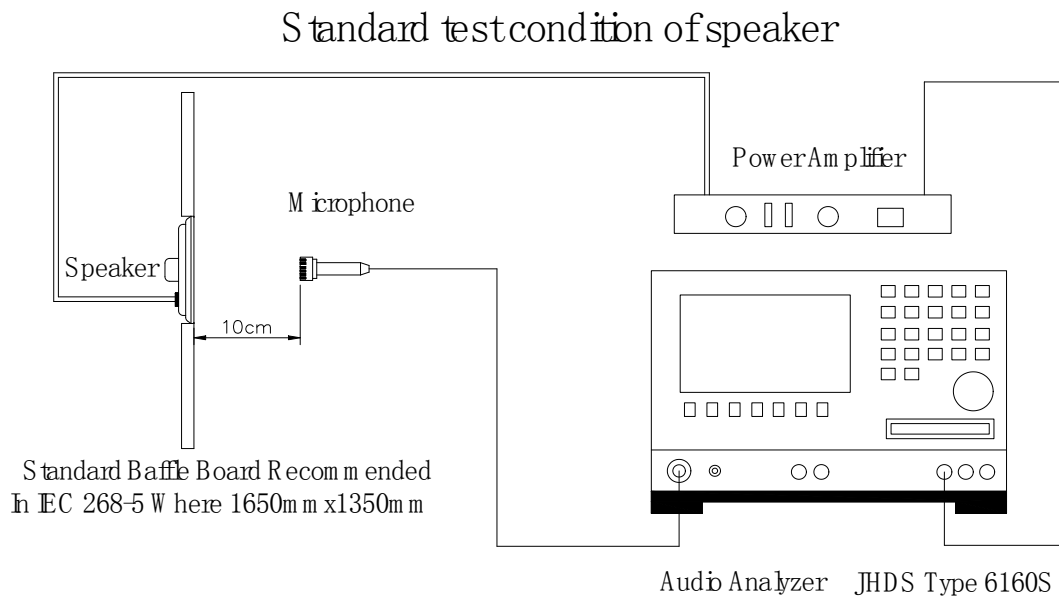
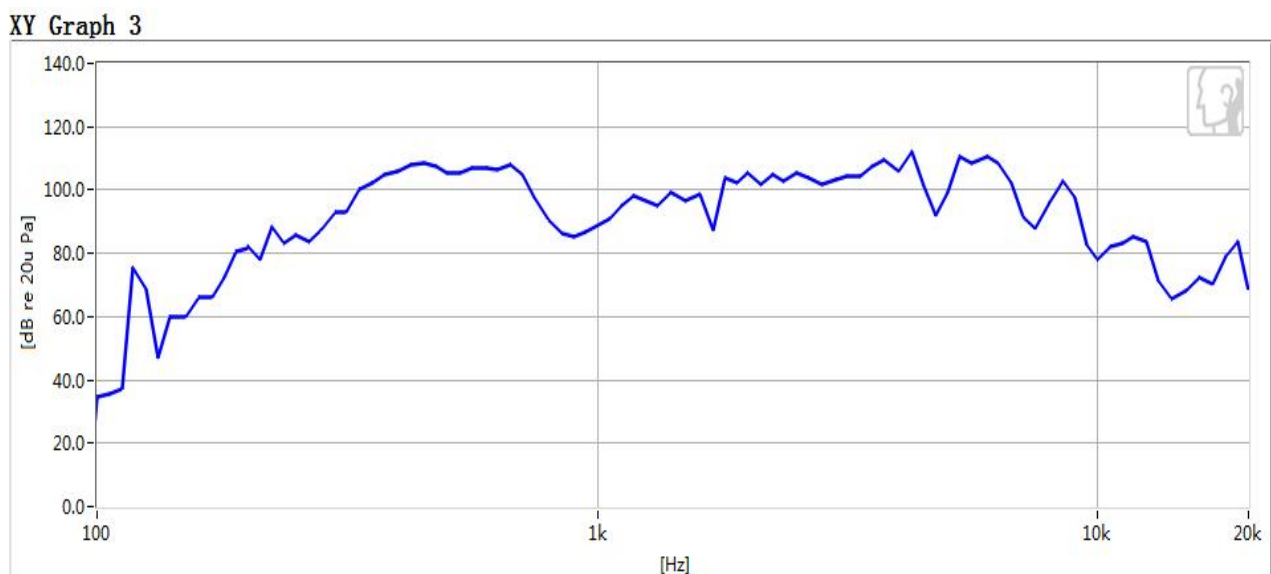


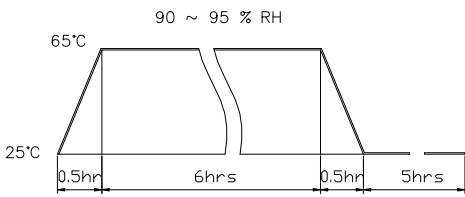
FIG. 2

E. Frequency Response 频率响应

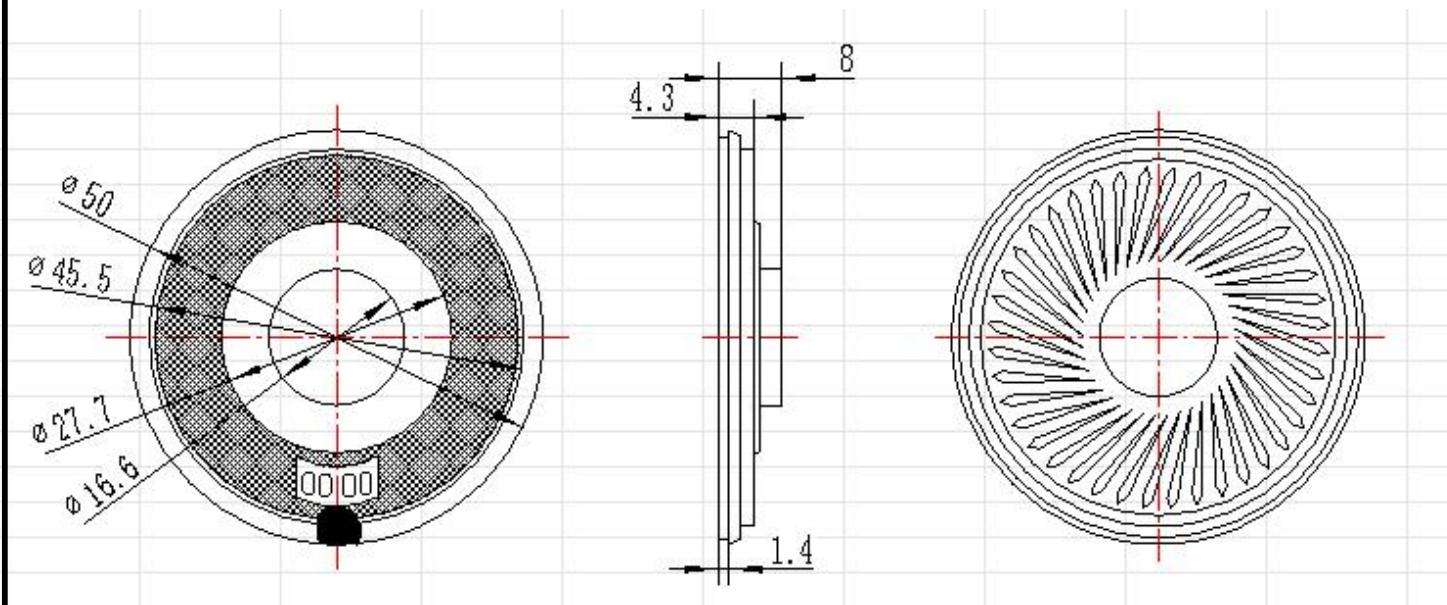
The swept sine-wave frequency response of a Loud speaker should ideally not deviate more than indicated per Fig.3
理想情况下，大音量扬声器的扫频正弦波频率响应不应超过图3所示的偏差



F. ENVIRONMENT TEST 环境试验

ITEM		SPECIFICATIONS
01	High temp. Test 高温试验	Keep 96 hours at $+80^{\circ}\text{C} \pm 3^{\circ}\text{C}$ and leave 3 hours in normal temperature and then check
02	Low temp. Test 低温试验	Keep 96 hours at $-30^{\circ}\text{C} \pm 3^{\circ}\text{C}$ and leave 3 hours in normal temperature and then check
03	Humidity test 湿度试验	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 温湿度循环	The part shall be subjected 5 cycles. One cycle shall be 12 hours and consist of; 
05	Thermal cycle test. 热循环试验	Low temperature: $-20^{\circ}\text{C} \pm 3^{\circ}\text{C}$, temperature: $+70^{\circ}\text{C} \pm 3^{\circ}\text{C}$, cycle: 1 hour/cycle each, and then keep 5 cycles in a room.
06	Vibration 震动试验	10~55~10Hz sin-wave sweep 15min. 5G(constant) X,Y, Z 3 direction. 2 hours each, total 6 hours.
07	Fix drop test 固定点跌落	Fix on jig. Then drop from 152cm height to the concrete floor X,Y, Z 6 direction. 5 times each, total 30 times.
08	Free drop test 自由跌落	Free drop from 100cm height to the concrete floor X,Y, Z 6 direction. 1 times each, total 6 times.
09	Load test 负载试验	Rated Power White noise is applied for 96 hours
10	Max Power test 最大功率测试	Max power 1 min. on - 2 min. off 10 cycles.
11	Terminal strength test 端子强度试验	Capable of withstand 1kg load for 30 seconds without resulting in any damage or rejection.
Criterion : After these test , the change of S.P.L shall be within $\pm 3 \text{ dB}$		

G. Dimensions 尺寸图



Tol : ± 0.5 Unit: mm

