



Loudspeaker

Ø50×22.6 mm

With wire & connector

SOD20722X8CVC

Revision

Date	Version	Status	Changes	Approver
2025/11/13	V0.1	Draft	First release	AX

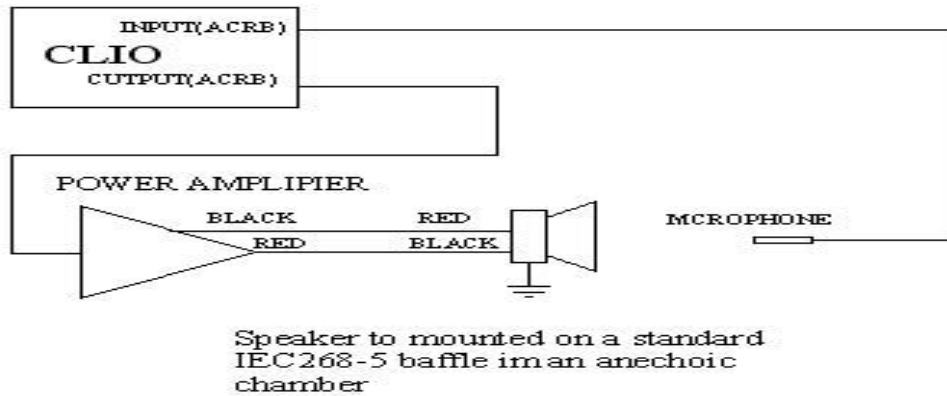
Specifications

项目 ITEMS	规格 TEST SPECIFICATIONS			测试条件 TEST CONDITIONS		
1、 尺寸 DIMENSIONS	Φ 50mm			参照外形装配图 PER SPEAKER CONSTRUCTION DWG.		
2、 主要材料 MAIN MATERIAL	盆架 BASKET	☐ METAL ☒ PLASTIC ☐ OTHER:				
	磁钢 MAGNET				☒ FERRITE ☐ Nd-Fe-B ☐ AL-Ni-Co ☐ OTHER:	
	纸盆 CONE	☐ 全纸盆 PAPER ☒ MYLAR ☐ CLOTH ☐ OTHER:				
		☐ 复合盆 COMPOUND	折环 SORROUND	☐ RUBBER ☐ FOAM ☐ CLOTH ☐ PU ☐ OTHER:		
		锥体 CONE BODY	☐ PAPER ☐ MYLAR ☐ PP ☐ OTHER:			
3、 总重量 TOTAL WEIGHT	± g					
4、 功率 POWER	额定功率 NORMAL POWER : 1.0 W 最大功率 MAX POWER : 2.0 W					
5、 阻抗 NORMAL IMPEDANCE	8 ± 15% Ω			AT 1 KHz / 1.0V		
6、 纯音检测 SINA SIGNAL OPERATION	不允许有任何杂音 THERE SHALL NOT BE EXTRANEIOUS NOISE			2.83V/RMS FROM 300 Hz TO 10 KHz(≥0.3m)		
7、 共振频率 RESONANT REQUENCY	300 ± 15% Hz			AT 1.0 V, Constant Voltage		
8、 特性灵敏度 S.P.L.	74.5 ±2 dB			AT 0.1 W / 1.0 M @0.8,1,1.2,1.5K Hz Average		
9、 频响范围 FREQUENCY RANGE	300Hz ~ 10 KHz			AT0.1W / 1 M, SPL.-20dB		
10、总品质因素 Qts	/			/		
11、失真 THD	2% max			AT 1K Hz 0.1W / 1 M		
12、极性 POLARITY	纸盆向正面移动 THE CONE SHALL MOVE UPWARD			正电流接于“+”上 WHEN APPLIE POSITIVE POTENTIAL TO THE (“+”)		
13、存储与运输 TRANSPORTATION AND STORAGE	GUARANTIED TEMPERATURE RANGE: Tmax= +60℃, Tmin= -25℃					
ENDURANCE AND MECHANICAL TEST						
14、连续负荷测试 LOAD TEST	WHITE NOISE1.0 W APPLIED FOR 96 H					
15、最大功率测试 MAX POWER TEST	WHITE NOISE 2.0 W APPLIED FOR 1 MIN					
16、高温测试 HIGH TEMPERATURE	+ 60 ± 3 °C HUMIDITY RANDOM FOR 96 HOURS.					
17、低温测试 LOW TEMPERATURE	-25± 3 °C HUMIDITY RANDOM FOR 96 HOURS.					
18、潮湿测试 HUMIDITY	+ 40 ± 3 °C RELATIVE HUMIDITY (RH) 90 ~ 95 % FOR 96 HOURS.					
NOTE: After test, leave speakers at room temperature for 1 hour, and speakers meet above item5,6,7,8.						
19、跌落测试 DROP TEST	SPEAKERS PROPERLY PACKAGED IN THEIR SHIPPING CARTON ARE DROPPED ON EACH SIDE OF THE CARTON EXCEPT THE TOP FROM A HEIGHT OF 80CM (CARTON GW≤10kG) OR 60CM (10kG<CARTON GW≤25kG)					
NOTE: After test, there shall be no buzz/rattle and the speakers shall not exhibit any physical damage.						
20、环境有害物质控制 ENVIROMENT HARMFUL MATERIAL CONTROL	RoHS COMPLIANT					

1. Characteristics measurement environment condition

- 1.1 Except other specified, measuring are under temperature 15~35℃, R.H. 25 ~75%, air pressure 86~106kPa.
- 1.2 Judgement condition temperature 20 ±2℃, R.H. 63~67%, air pressure 86~106kPa.

2. Output Sound Pressure Level (S.P.L.) and distortion testing setup



3. Endurance & Mechanical test:

3.1 Load test:

Speaker should not fail after applying 20 ~ 20K Hz white noise at rated power input (RMS) for 96 hours, then leave the speaker at room temperature for 1 hour, speaker shall meet item 5,6,7,8 .

3.2 Max power test:

Speaker should not fail after applying 20 ~ 20K Hz white noise at max power input for 1 min, then leave the speaker at room temperature for 1 hour, speaker shall meet item 5,6,7,8 .

3.3 High Temperature:

After exposure the speaker in the high temperature chamber on condition described as item 16 for 96 hours, then leave the speaker at room temperature for 1 hour, the speaker shall meet item 5,6,7,8 .

3.4 Low Temperature:

After exposure the speaker in the low temperature chamber on condition described as item 17 for 96 hours, then leave the speaker at room temperature for 1 hour, the speaker shall meet item 5,6,7,8 .

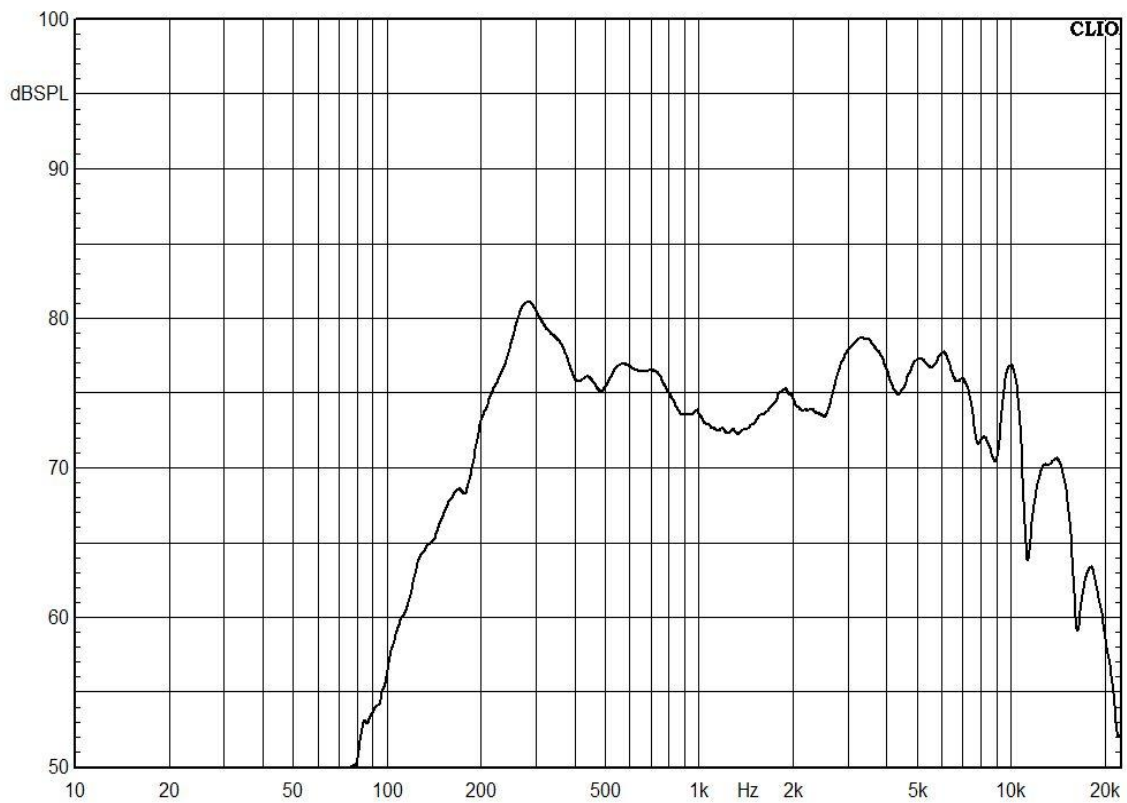
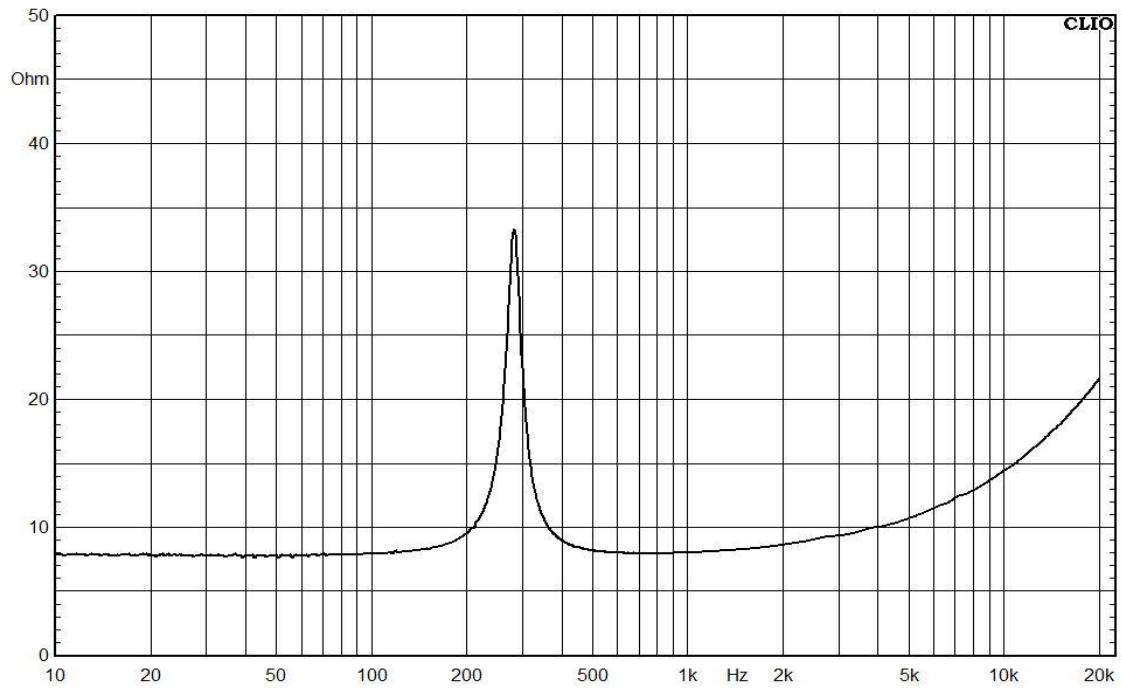
3.5 Humidity:

After exposure the speaker in the chamber on condition described as item 18 for 96 hours, then leave the speaker at room temperature for 1 hours, the speaker shall meet item 5,6,7,8.

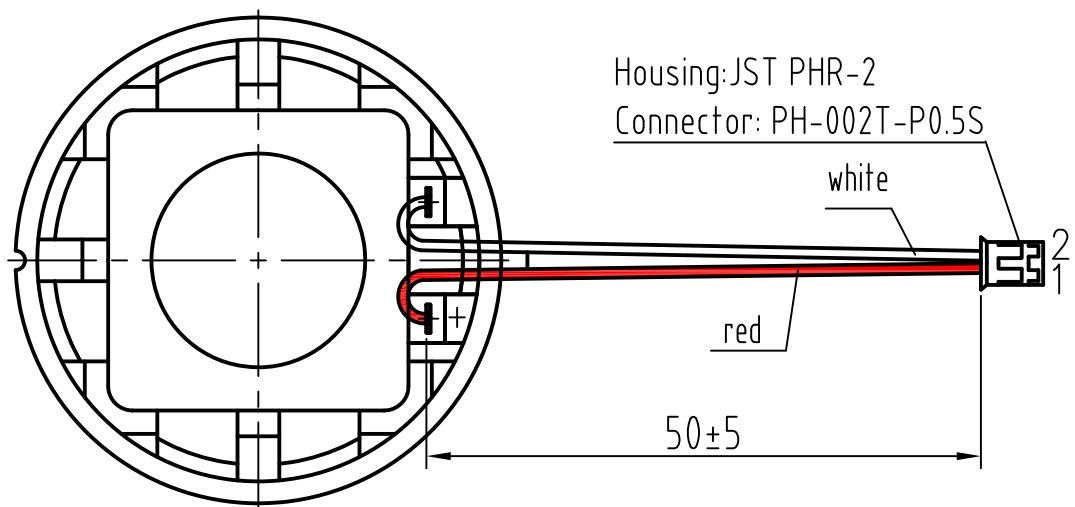
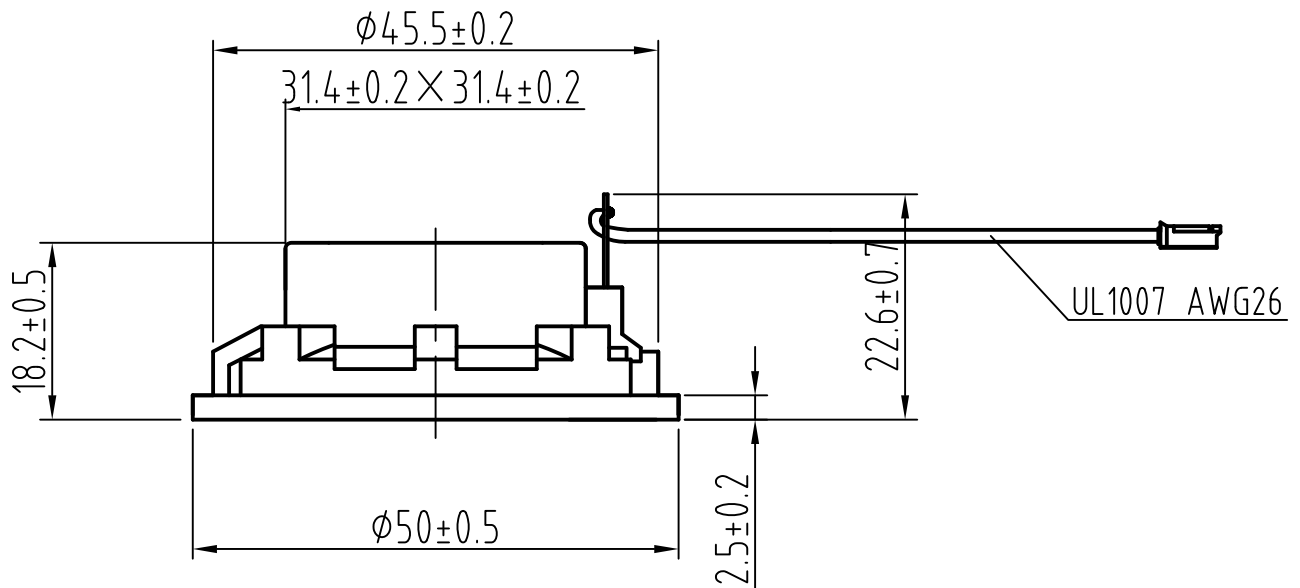
3.6 Drop test:

Speakers properly packaged in their shipping carton are dropped on each side of the carton except the top from a height of 80cm (carton GW≤10kg) or 60cm (10kg<carton GW≤25kg), after test, there shall be no buzz/rattle and the speakers shall not exhibit any physical damage.

TYPICAL FREQUENCY RESPONSE CURVES



DRAWING



			RoHS Compliant			
			Tolerance is not marked			
			below 6	±0.2	>6 to 30	±0.3
			>30 to 80	±0.5	>80 to 120	±0.8
			>120 to 250	±1.0	>250	±1.3
NO	Date	Description			Scale	1:1
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