Loudspeaker

Ø50x18.2 mm

SOD20722X8CH-H2

Revision

Date	Version	Status	Changes	Approver
2017/11/10	V0.1	Draft	First release	LC

ITEMS	TEST SPECIFICATIONS			TEST CONDITIONS
1、DIMENSIONS	50×18.2mm			PER SPEAKER CONSTRUCTION DWG.
2、MAIN MATERIAL	BASKET	○ METAL ● PLASTIC ○ OTHER:		
	MAGNET	□28.5×12.5×5㎜		● FERRITE ○ Nd-Fe-B ○ Al-Ni-Co ○ OTHER:
	CONE	○ PAPER ● MYLAR ○ OTHER		
		○ COMPOUND	折环 SORROUND	□ RUBBER □FOAM □CLOTH □ PU □ OTHER:
			锥体 CONE BODY	□ PAPER □MYLAR □ PP □ OTHER:
3、TOTAL WEIGHT	± g			
4、POWER	NORMAL POWER : 2.0 W MAX POWER : 2.5 W			
5、NORMAL IMPEDANCE	8 Ω ± 15%			AT 1.0 KH_Z / 1.0V
6、SINA SIGNAL OPERATION	THERE SHALL NOT BE EXTRANEOUS NOISE			4.0V/RMS FROM FO TO 20 KHz
7、RESONANT REQUENCY	360± 20% H_Z			AT 1.0 V
8、S.P.L.	73 dB ± 3 dB			AT 0.1 W / 1.0M (0.8; 1.0; 1.2;1.5 KH_Z AVE)
9、FREQUENCY RANGE	F_0 ～ 10 KHz MAX：20dB			AT 0.1 W / 1.0 M
10、Qts	------			
11、THD	MAX: 2 %			AT 1.0K H_Z 0.1W / 1.0 M
12、POLARITY	THE CONE SHALL MOVE UPWARD			WHEN APPLIE POSITIVE POTENTIAL TO THE (“+”)
13、TRANSPORTATION AND STORAGE	GUARANTIED TEMPERATURE RANGE: Tmax= +80℃，Tmin= -25℃			
NOTE： Above measuring condition under temperature: 15~35℃,R.H. 25 ~75%.				
ENDURANCE AND MECHANICAL TEST				
14、LOAD TEST	WHITE NOISE2.0W APPLIED FOR 96 H			
15、HIGH TEMPERATURE	+ 60 ± 3 °C HUMIDITY RANDOM FOR 96 HOURS.			
16、LOW TEMPERATURE	- 25 ± 3 °C HUMIDITY RANDOM FOR 96 HOURS.			
17、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 item 5,6,7,8.				
18、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.				
19、ENVIROMENT HARMFUL MATERIAL CONTROL	RoHS COMPLIANT			

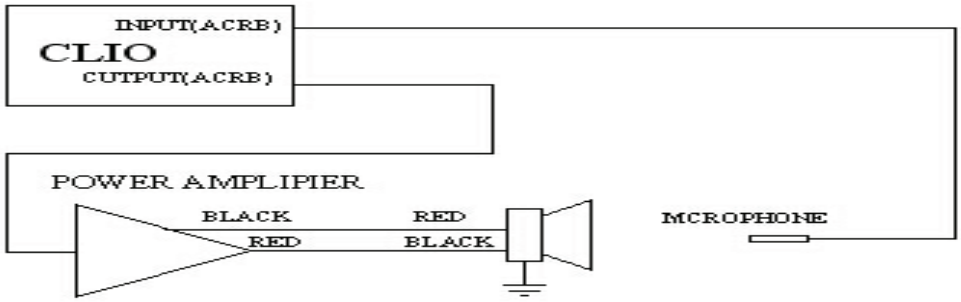
Test method and User precaution

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



Speaker to mounted on a standard IEC268-5 baffle im an anechoic chamber

2. Endurance & Mechanical test:

3.1 Load test:

Speaker should not fail after applying FO ~ 20K Hz white noise 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 High Temperature:

After exposure the speaker in the high temperature chamber on condition described as item 15 for 96 hours, then leave the speaker at room temperature for 1 hour, the speaker shall meet item 5,6,7,8.

3.3 Low Temperature:

After exposure the speaker in the low 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.

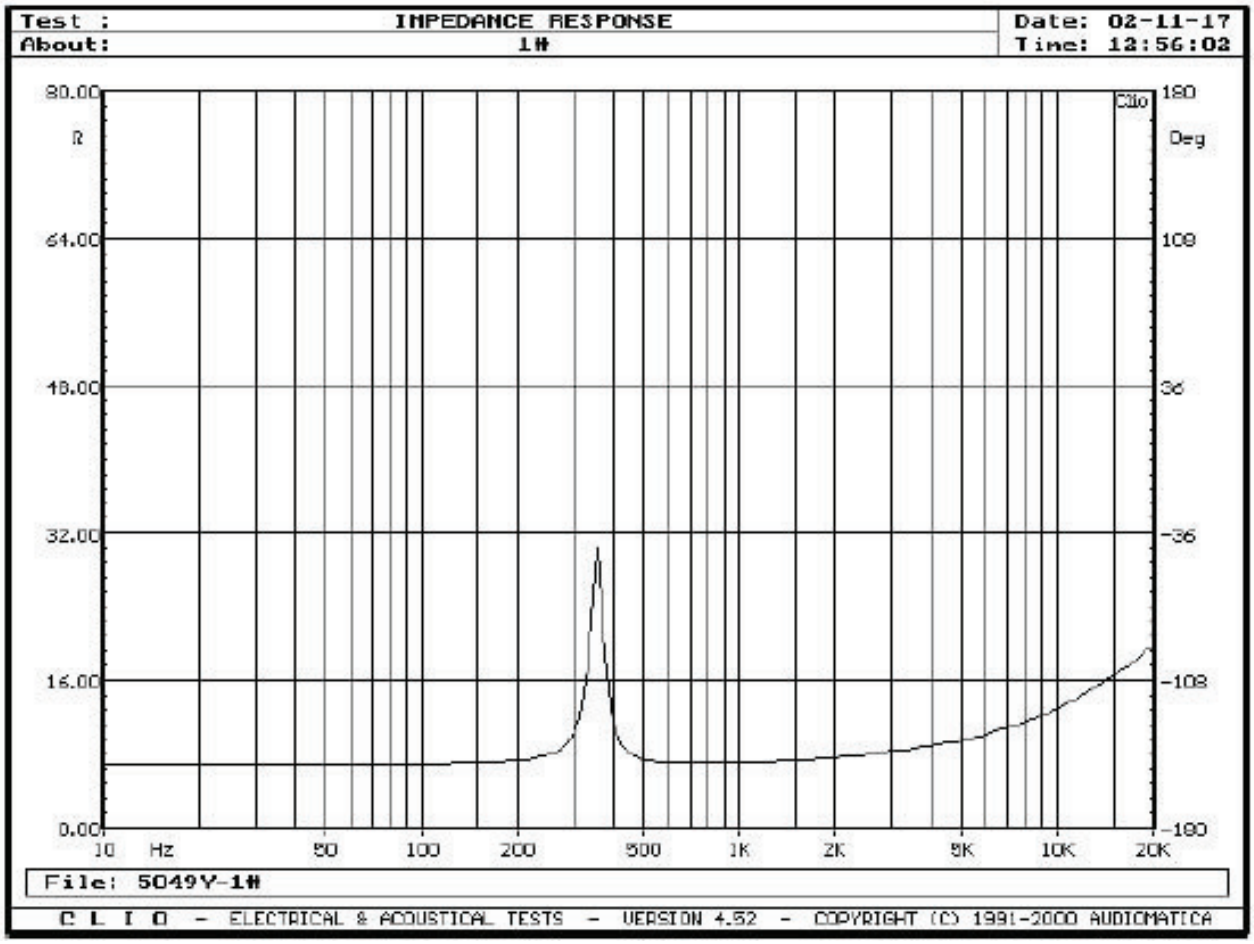
3.4 Humidity:

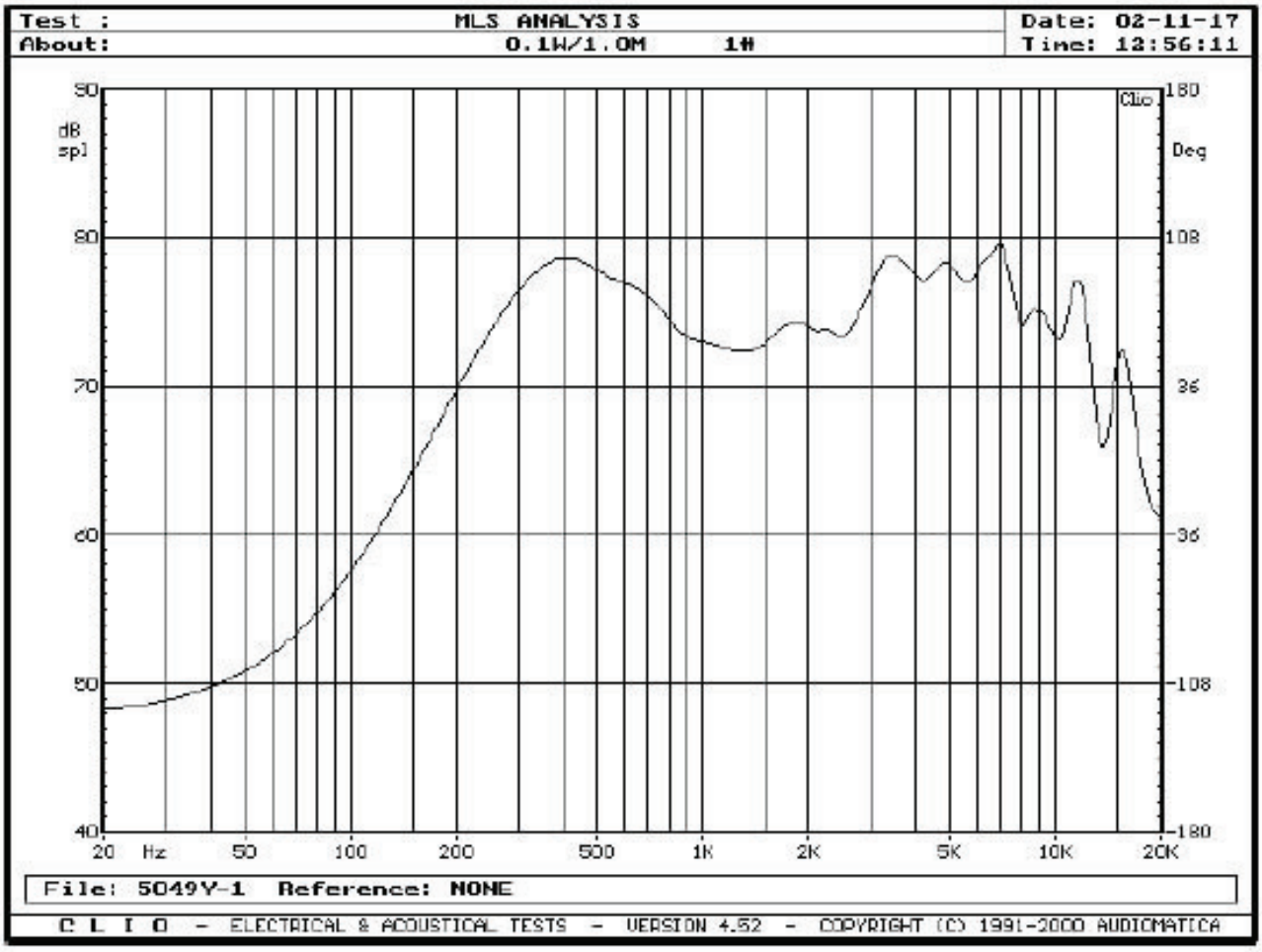
After exposure the speaker in the chamber on condition described as item 17, for 96 hours, then leave the speaker at room temperature for 1 hours, the speaker shall meet item 5,6,7,8.

3.5 Drop test:

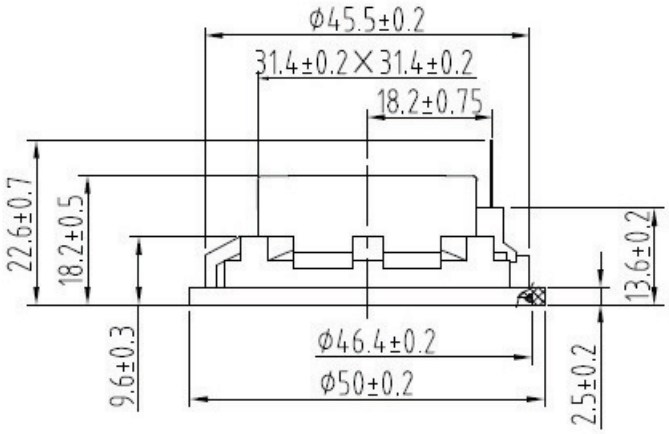
Speakers properly packaged in their shipping carton are dropped on each side of the carton except the top from a height of 80cm (carton GW≤10kg) or 60cm (10kg<carton GW≤25kg), after test, there shall be no buzz/rattle and the speakers shall not exhibit any physical damage.

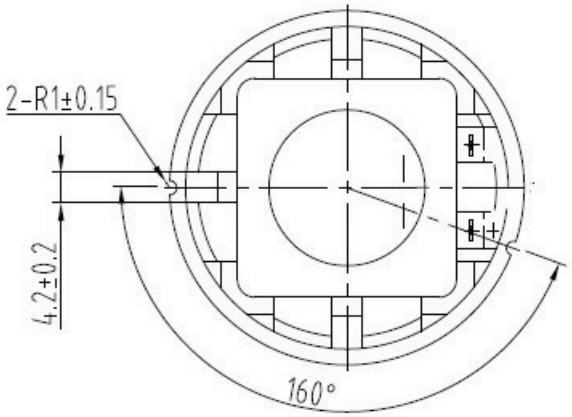
TYPICAL FREQUENCY RESPONSE CURVES





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	
		Description	Scale		1:1		
	SPEAKER						