Round loudspeaker

With wires &connector

Ø50×9.0mm

CC50C09AN22

Revision

Date	Version	Status	Changes	Approver
2017/08/08	V0.1	Draft	First release	Lucie
2019/12/20	V0.2	Draft	update connector, add package information	AX

1. CONDITION.

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.

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.

2. ELECTRICAL AND ACOUSTICAL SPECIFICATION.

2-1	**Rated Input Power.**	**0.2W**
2-2	**Max Input Power.**	**0.4**W
2-3	**Rated Impedance.**	**22Ω ± 15%**
2-4	**Sound Pressure Level. (S.P.L)**	90dB(0.1W/0.1m) ± 3 dB at AVE 0.8K 1.0K 1.2K 1.5K Hz
2-5	**Resonance Frequency (Fo).**	**500±20%**Hz
2-6	**Frequency Range.**	F0~**5.0**kHz.
2-7	**Distortion**	Less than 5% at 1KHz input Rated Power
2-8	**Magnet**	Rare earth permanent (NdFeB) magnet Φ 12 *1.5mm
2-9	**Buzz, Rattle, etc.**	Should not be audible at 2.1V 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: -30℃ to +70℃ Storage temperature: -40℃ to +85℃

3. MEASURING METHOD

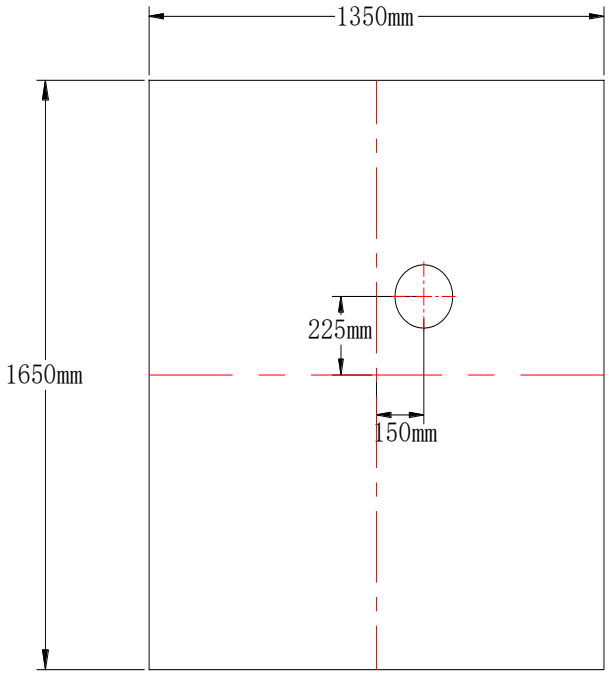


FIG.1

3. 1Block Diagram For Measurement Method.

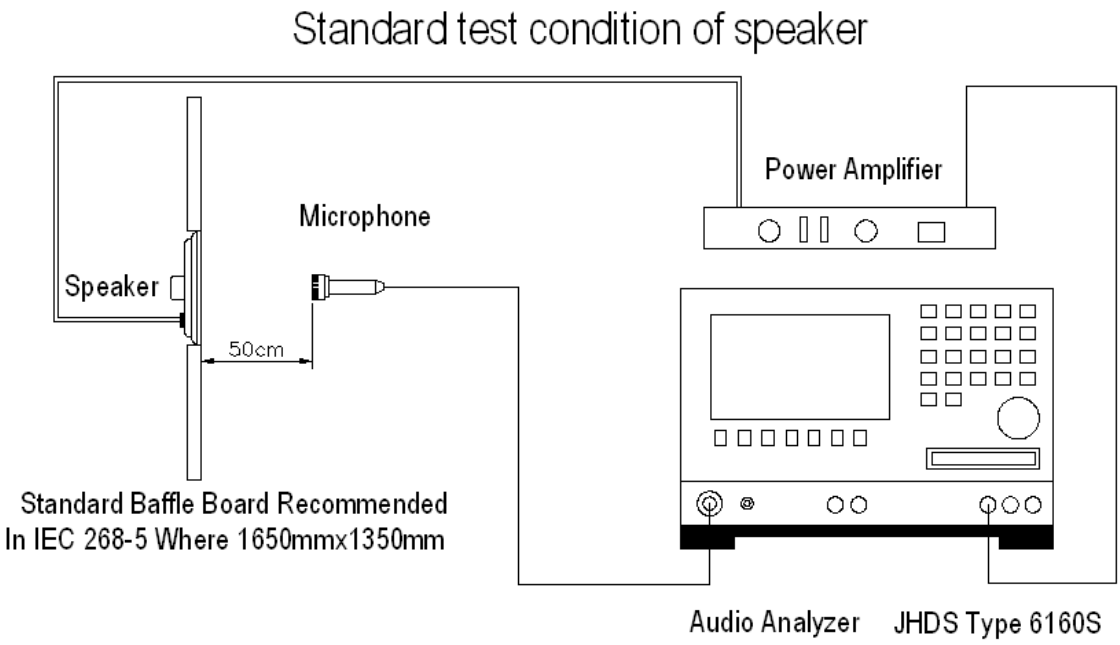


FIG.2

4. Frequency Response :

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

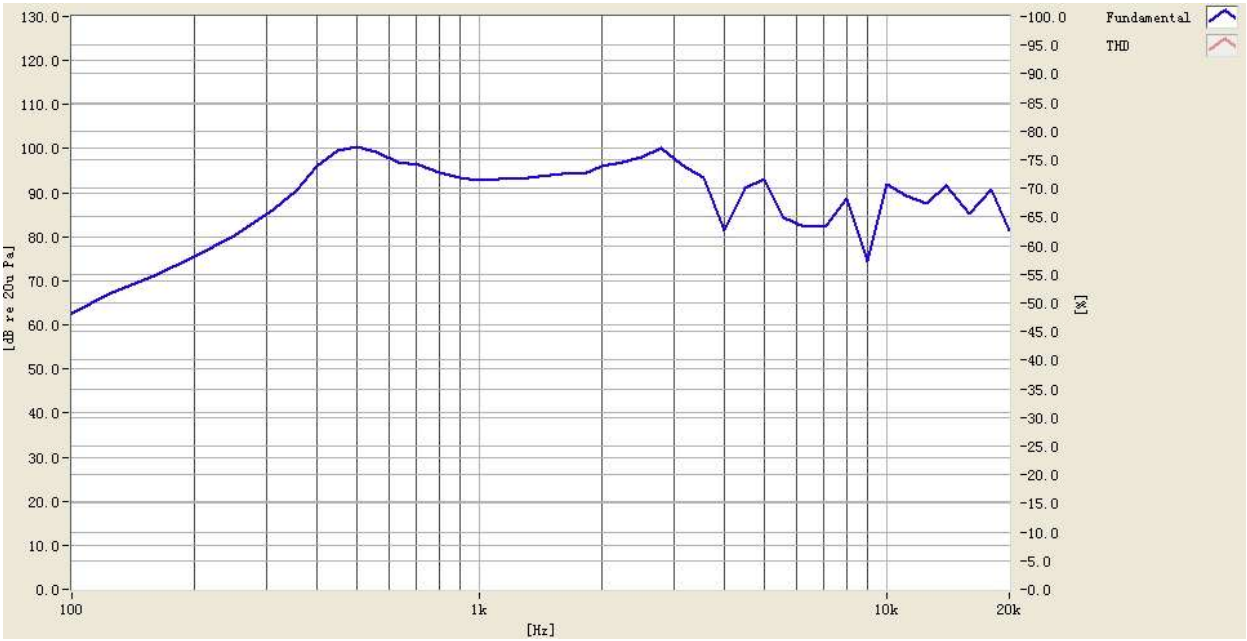
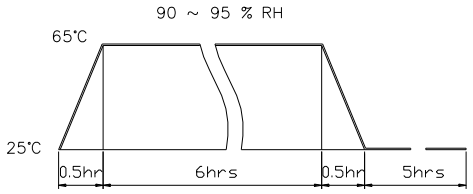


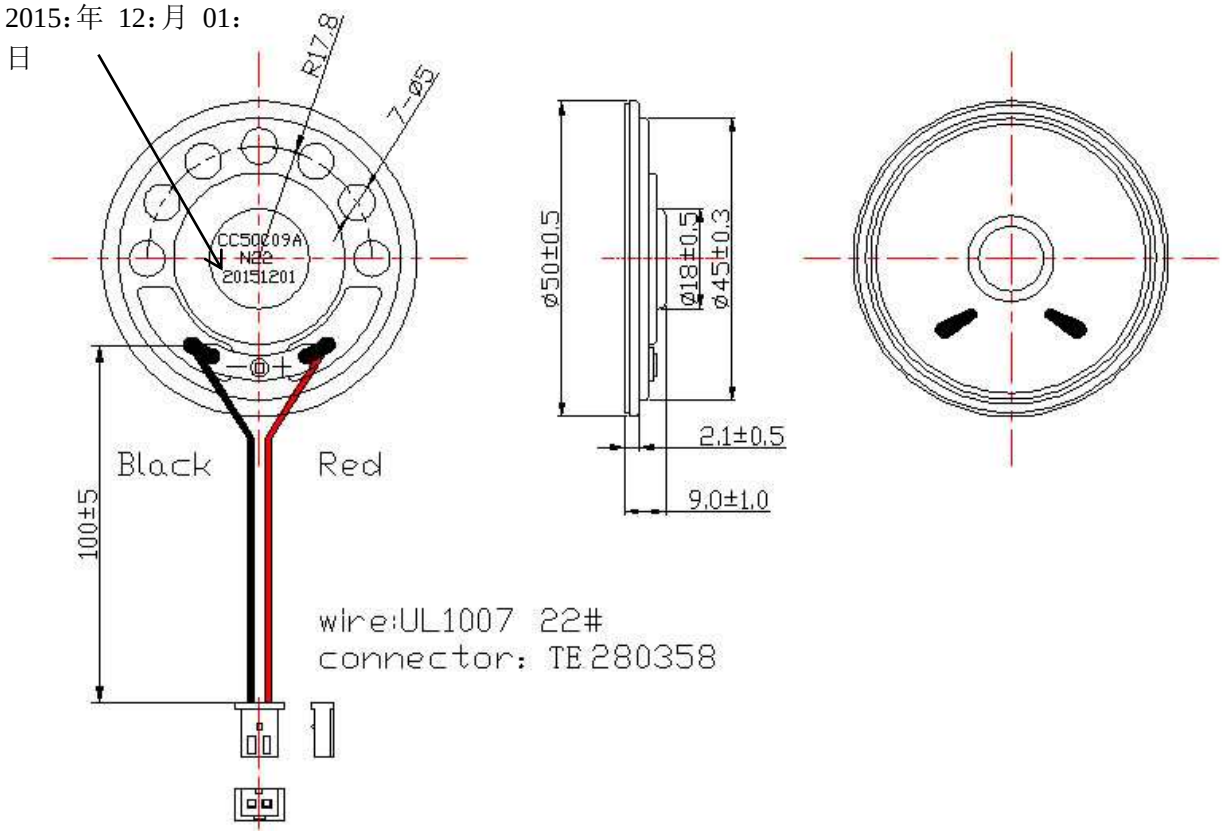
FIG.3

5. ENVIRONMENT TEST

ITEM		SPECIFICATIONS
01	**High temp. Test**	Keep 96 hours at +70℃±3℃ and leave 6 hours in normal temperature and then check
02	**Low temp. Test**	Keep 96 hours at -30℃±3℃ and leave 6 hours in normal temperature and then check
03	**Humidity test**	Keep 96 hours at + 30℃±3℃ relative humidity 92-95% and leave 3 hours in normal temperature and then checked.
04	**Temp./Humidity cycle**	The part shall be subjected 5 cycles. One cycle shall be 6 hours and consist of; 
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 for24hours at room temp
08	**Lead Wire Pull Strength**	The pull force shall be applied to double lead wire： Horizontal 3.0N(0.306kg) for 30 seconds. Vertical 2.0N(0.204kg) for 30 seconds.
Criterion : **After these test , the change of S.P.L shall be within ±3 dB**		

6.Dimensions

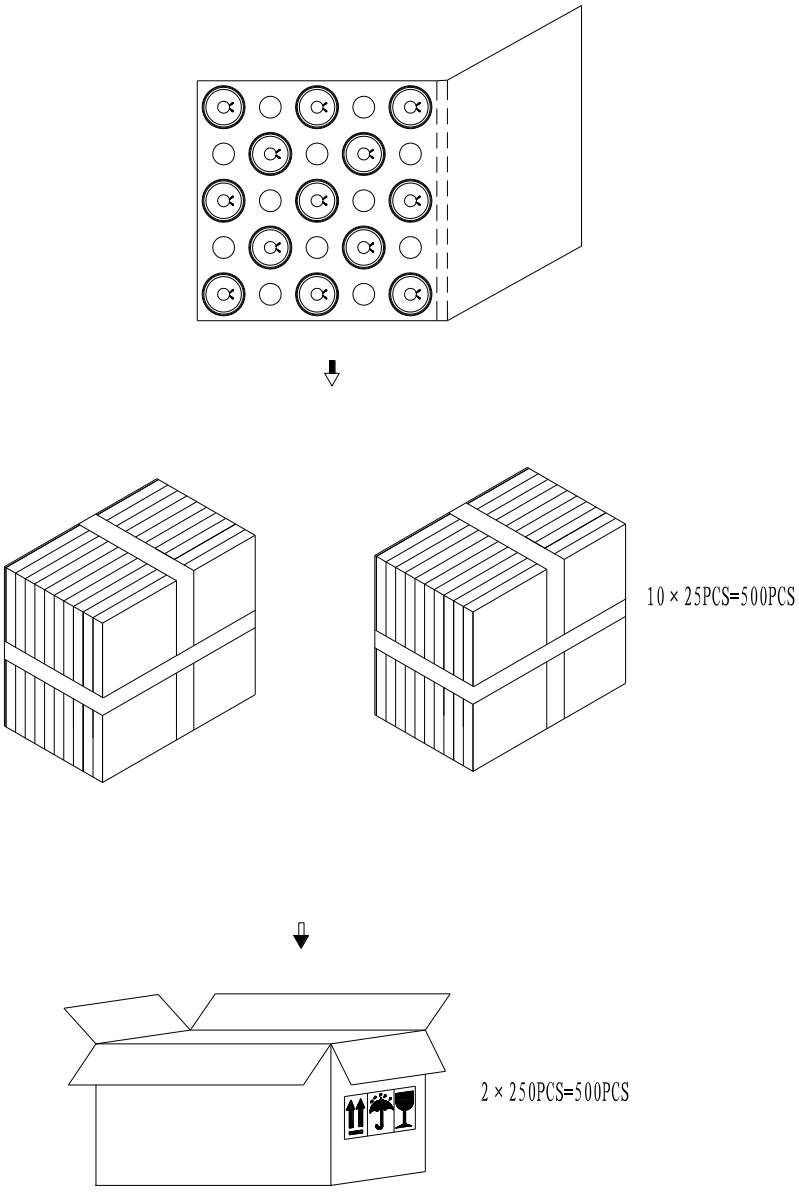
2015:年 12:月 01:日



Unit:mm Tol:±0.5

8	Cap	1	Paper	
7	Gasket	1	Paper	
6	Diaphragm	1	Paper	
5	VOICE COIL	1	Paper Cu	
4	Plate	1	SPCC	
3	Magnet	1	NdFeB	
2	PCB Terminal	1	Paper+meter	
1	Frame	1	Spcc	
The material must be meet to GU-001				
PART NO.	PART NAME	Q'TY	MATERIAL	REMARK

7.PACKING



外箱尺寸：32 cm *32 cm *37 cm