Dynamic Loudspeaker

15×11×3.0 mm

CR1511L030UN8

Revision

Date	Version	Status	Changes	Approver
2018/07/02	V0.1	Draft	Initial release	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.**	**0.5W (in 1.0cc box)**
2-2	**Max Input Power.**	**0.8W (in 1.0cc box)**
2-3	**Rated Impedance.**	**8Ω ± 15%**
2-4	**Sound Pressure Level. (S.P.L)**	84 ± 3 dB SPL /0.1W/0.1M at 2.0K Hz
2-5	**Resonance Frequency (Fo).**	600±20% Hz 900±20% Hz while testing in 1cc box
2-6	**Frequency Range.**	F0~5kHz.
2-7	**Distortion**	Less than 15% 1KHz input1V，in 1cc box.
2-8	**Magnet**	Rare earth permanent (NdFeB) magnet
2-9	**Buzz, Rattle, etc.**	Must be normal at sine wave 0.89V (in free air) /2V(in 1.0cc box) from 400~5000KHz
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.**	APPROX. 1.5 grams
2-13	**Temperature**	Operating temperature: -25°C to +60°C Storage temperature: -25°C to +60°C

3. MEASURING METHOD

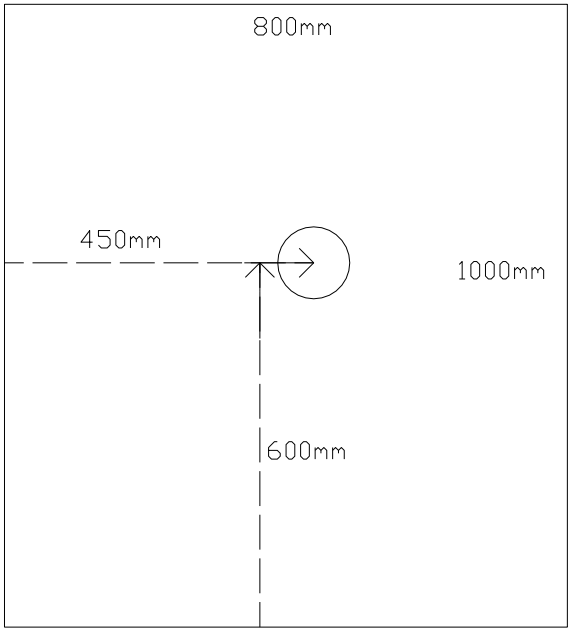


FIG.1

3. 1Block Diagram For Measurement Method.

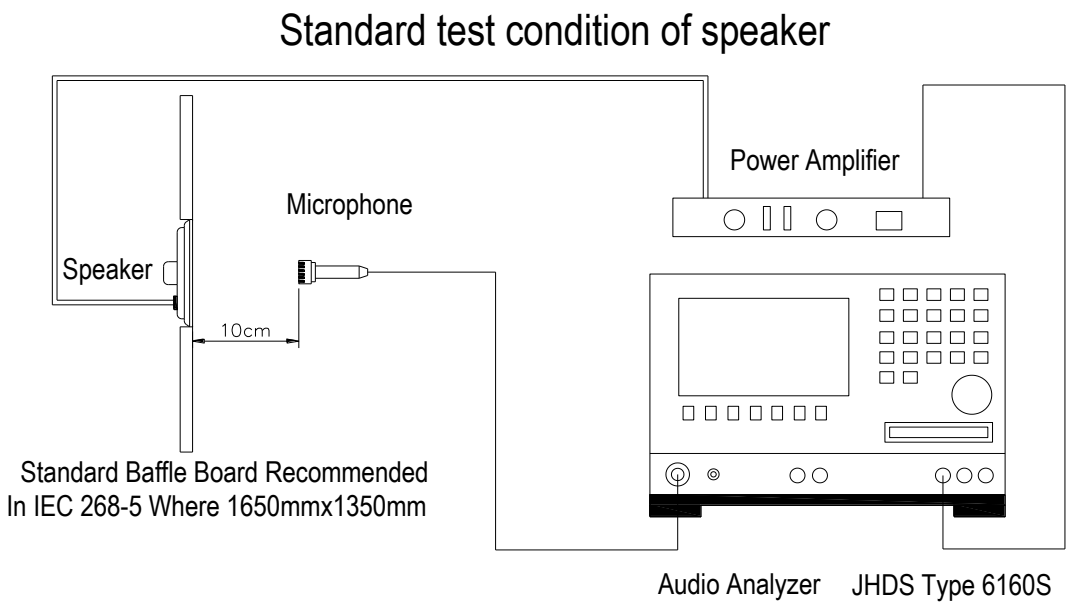


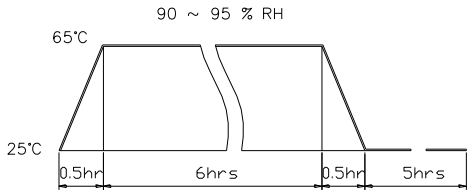
FIG.2

4. Frequency Response :

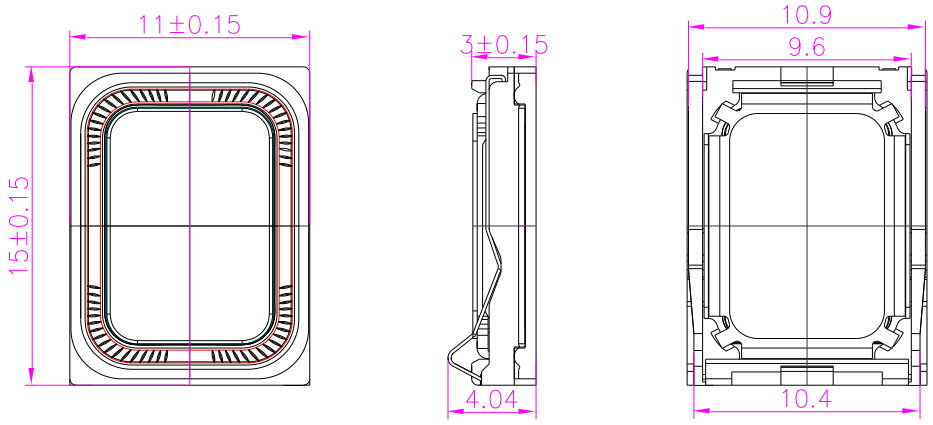
The swept sine-wave frequency response of a Loud speaker should ideally not deviate more than indicated per Fig.3

FIG.3

5. ENVIRONMENT TEST

ITEM		SPECIFICATIONS
01	**High temp. Test**	Keep 96 hours at +60℃±3℃ and leave 3 hours in normal temperature and then check
02	**Low temp. Test**	Keep 96 hours at -25℃±3℃ and leave 3 hours in normal temperature and then check
03	**Humidity test**	Keep 96 hours at + 40℃±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 12 hours and consist of; 
05	**Thermal cycle test.**	Low temperature: -25℃±3℃, temperature:+60℃±3℃, cycle: 1 hour/cycle each, and then keep 5 cycles in a room.
06	**Vibration**	10~55~10Hz sin-wave sweep 15min. 5G(constant) X,Y, Z 3 direction. 2 hours each, total 6 hours.
07	**Fix drop test**	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**	Free drop from 100cm height to the concrete floor X,Y, Z 6 direction. 1 times each, total 6 times.
09	**Load test**	Rated Power White noise is applied for 48 hours in 1.0cc box。
10	**Max Power test**	Max power 1 min. on - 2 min. off 10 cycles.
11	**Terminal strength test**	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 ±3 dB**		

6.Dimensions



Unit: mm Tol:±0.2

5	Diaphragm	1	PEEK	
4	VOICE COIL	1	COPPER WIRE	
3	Plate	1	SPCC	
2	Magnet	1	NdFeB	
1	Frame	1	PPA	
The material must be meet to GU-001				
PART NO.	PART NAME	Q'TY	MATERIAL	REMARK

7.PACKING

每盘 100 个 100pcs of speaker in each tray

每箱 20 盘 20 trays in one carton

总计:2000 个 / 1 箱 Total:2000pcs / 1 carton

毛重: 4.5KGS Gross Weight:4.5KGS

净重: 3.0KGS Net Weight: 3.0KGS