REV:01

ROHS

SPECIFICATION OF PRODUCT

産品承認書

CUSTOMER:	
DESCRIPTION:	SPEAKER
CHENGXUN P/N:	PMB102102395-R04W15-F70U-G
CUSTOMER P/N:	
DATE:	

CUSTOMER	APPROVER	CHECKER



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1. CONDITION.

Test and measurement will be carried out under normal condition of temperature within 5° C to 35° C, 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 $20^{\circ}\text{C} \pm 2^{\circ}\text{C}$ and relative humidity within 60%and 70%, with air pressure remaining unchanged, to be enforced.

2. ELECTRICAL AND ACOUSTICAL SPECIFICATION.

2-1	Rated Input Power.	15W	
2-2	Max Input Power.	20W	
2-3	Rated Impedance.	$4\Omega \pm 15\%$	
2-4	Sound Pressure Level.	$89 dB(1.0W/0.5m) \pm 3 dB$	
2-4	(S.P.L)	at AVE 0.5K 0.6K 0.8K 1.0K Hz	
2-5	Resonance Frequency (Fo).	120±20%Hz	
2-6	Frequency Range.	F0~10kHz.	
2-7	Distortion	Less than5% at 0.6KHz input 1W 0.5m	
2-8	Magnet	Rare earth per manent (Ferrite) magnet 70*32*10 mm	
2-9	Buzz, Rattle, etc.	Buzz, Rattle, etc. Should not be audible at 7.7V 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: -20°C to +60°C Storage temperature: -30°C to +70°C	

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3. MEASURING METHOD

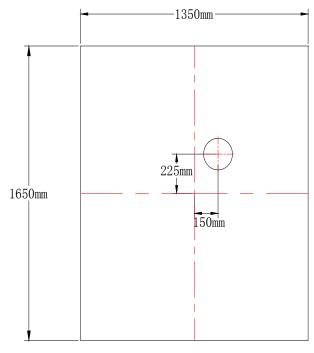


FIG.1

3. 1Block Diagram For Measurement Method.

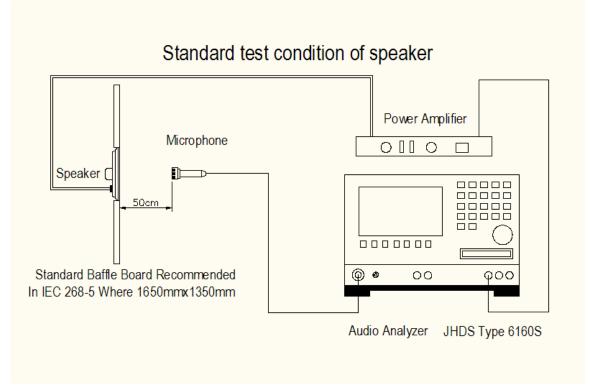


FIG.2

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4. Frequency Response:

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

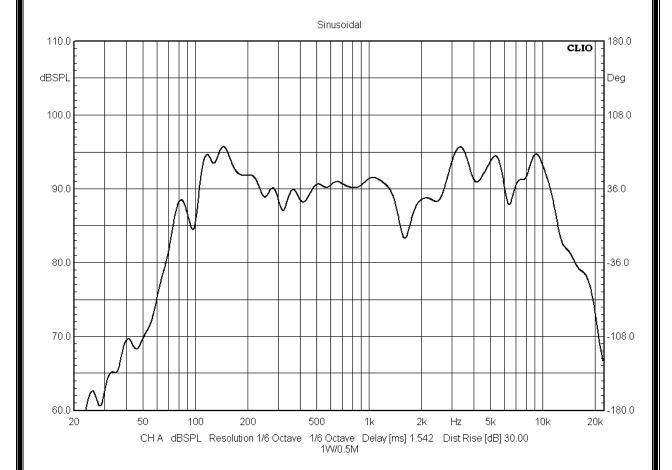


FIG.3

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5. ENVIRONMENT TEST

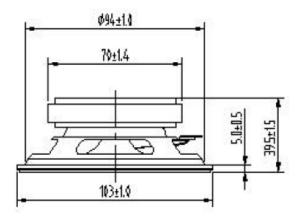
ITEM		SPECIFICATIONS		
01	High temp. Test	Keep 96 hours at $+70^{\circ}\text{C} \pm 3^{\circ}\text{C}$ and leave 3 hours in normal temperature and then check		
02	Low temp. Test	Keep 96 hours at -30 °C \pm 3 °C and leave 3 hours in normal temperature and then check		
03	Humidity test	Keep 96 hours at $+40^{\circ}\text{C} \pm 3^{\circ}\text{C}$ relative humidity 92-95% and leave 3 hours in normal temperature and then checked.		
04	Temp./Humidity cycle	The part shall be subjected 5 cycles. One cycle shall be 12 hours and consist of; 90 ~ 95 % RH 65°C 0.5hr 6hrs 0.5hr 5hrs		
05	Thermal cycle test.	Low temperature: $-30^{\circ}\text{C} \pm 3^{\circ}\text{C}$, 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	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 96 hours		
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.		

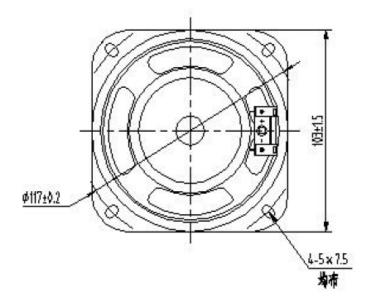
Criterion:

After these test, the change of S.P.L shall be within ± 3 dB

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6.Dimensions





Unit:mm Tol:±0.5

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

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