

### SPECIFICATION OF PRODUCT

## 產品承認書

CUSTOMER:			
DESCRIPTION:	SPEAKER		
CHENGXUN P/N:	PMB57190-R08W3.0-F		

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°C±2°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.	3.0W	
2-2	Max Input Power.	<b>4.0</b> W	
2-3	Rated Impedance.	$8\Omega \pm 15\%$	
2-4	Sound Pressure Level. (S.P.L)	86dB(1W/0.5m) ± 3 dB at AVE 0.8K 1.0K 1.2K 1.5K Hz	
2-5	Resonance Frequency (Fo).	350±20%Hz	
2-6	Frequency Range.	F0~ <b>20</b> kHz.	
2-7	Distortion	Less than 5% at 1KHz input Rated Power	
2-8	Magnet	Rare earth permanent (NdFeB) magnet $\Phi$ 12*2mm	
2-9	Buzz, Rattle, etc.	, etc. Should not be audible at 4.9 V sine Wave between Fo to 20KHz	
2-10	Polarity	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: $-30^{\circ}\text{C}$ to $+70^{\circ}\text{C}$ Storage temperature: $-40^{\circ}\text{C}$ to $+85^{\circ}\text{C}$	

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#### 3. MEASURING METHOD

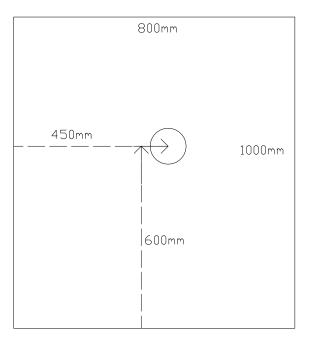
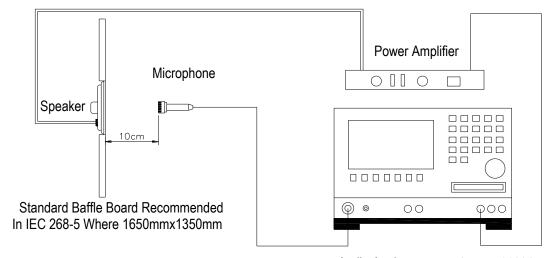


FIG.1

#### 3. 1Block Diagram For Measurement Method.

### Standard test condition of speaker



Audio Analyzer JHDS Type 6160S

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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

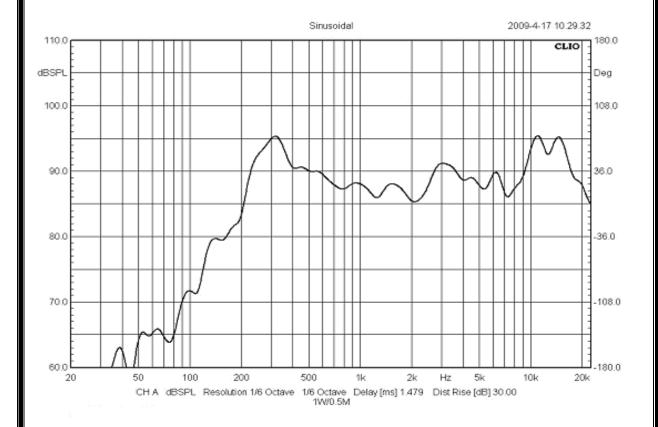


FIG.3

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### **5. ENVIRONMENT TEST**

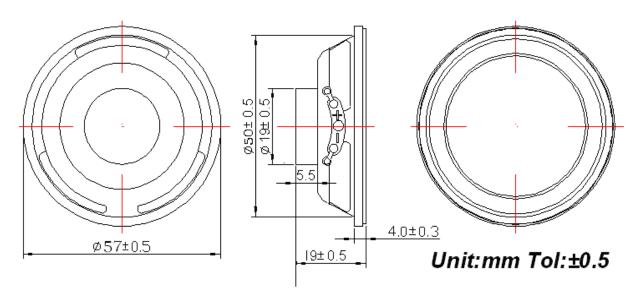
ITEM		SPECIFICATIONS			
01	High temp. Test	Keep 96 hours at $+85^{\circ}\text{C} \pm 3^{\circ}\text{C}$ and leave 3 hours in normal temperature and then check			
02	Low temp. Test	Keep 96 hours at -40 °C $\pm$ 3 °C and leave 3 hours in normal temperature and then check			
03	Humidity test	Keep 96 hours 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: $-40^{\circ}\text{C} \pm 3^{\circ}\text{C}$ , temperature: $+85^{\circ}\text{C} \pm 3^{\circ}\text{C}$ , 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  $\pm 3$  dB

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### 6.Dimensions



Unit:mm Tol:±0.5

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+Cu		
1	Frame	1	SPCC		
The material must be meet to GU-001					
PART NO.	PART NAME	Q'TY	MATERIAL	REMARK	

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