

# SPECIFICATION OF PRODUCT 産品承認書

DESCRIPTION: SPEAKER

P M B P/N: PMB77270-R08W2.0-353



# PWB 피엠비일렉텍 상표등록 〈제40-0729433호〉 PMB ELECTECH

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#### 1. CONDITION.

Test and measurement will be carried out under normal condition of temperature within  $5^{\circ}$ C to  $35^{\circ}$ 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.	2.0W		
2-2	Max Input Power.	3.0 W		
2-3	Rated Impedance.	8 ± <b>15%</b>		
2-4	Sound Pressure Level. (S.P.L)	86± 3 dB (1W/0.5m) at AVE 0.6K 0.8K 1.0K 1.2K Hz		
2-5	Resonance Frequency (Fo).	180±20%Hz		
2-6	Frequency Range.	F0~5kHz.		
2-7	Distortion	Less than 5% at 1KHz input 1W 0.5m		
2-8	Magnet	Rare earth permanent (Ferrite) magnet Φ32*18*6 mm		
2-9	Buzz, Rattle, etc.	Should not be audible at 4V 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	Temperature	Operating temperature: -30°C to +70°C Storage temperature: -40°C to +85°C		

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#### 3. MEASURING METHOD

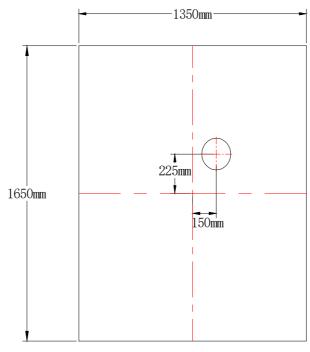


FIG.1

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

Standard test condition of speaker

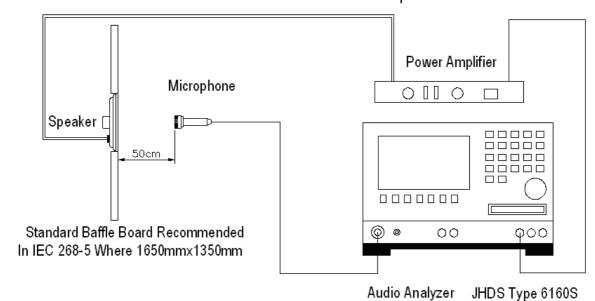


FIG.2

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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

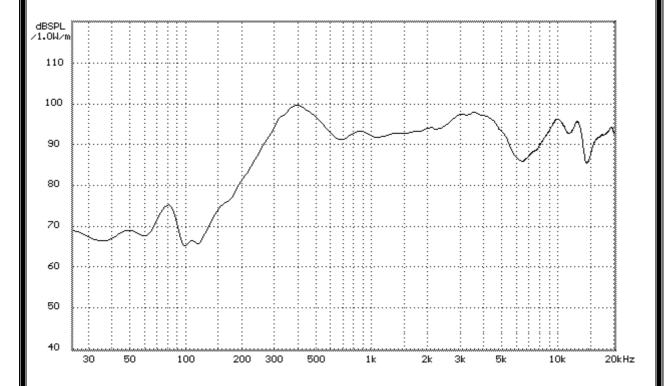


FIG.3

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## 5. ENVIRONMENT TEST

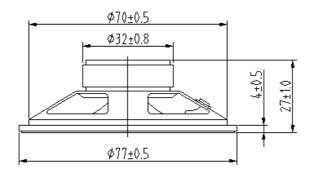
ITEM		SPECIFICATIONS				
01	High temp. Test	Keep 96 hours at $+85^{\circ}\mathrm{C} \pm 3^{\circ}\mathrm{C}$ and leave 3 hours in normal temperature and then check				
02	Low temp. Test	Keep 96 hours at $-40^{\circ}\text{C} \pm 3^{\circ}\text{C}$ and leave 3 hours in normal temperature and then check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

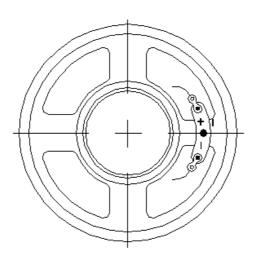
#### Criterion :

After these test , the change of S.P.L shall be within  $\pm 3 \, \mathrm{dB}$ 

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## 6.Dimensions





## Unit:mm Tol:±0.5

8	GASKET	1	Paper					
7	Diaphragm	1	Foam-edge					
6	VOICE COIL	1	PAPER+ Cu					
5	Damper	1	Cloth					
4	Plate	1	SPCC					
3	Magnet	1	Ferrite					
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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