

## SPEAKER

L-KLS3-5008-R08W1.0-B      Micro Speakers

Rated/Max Input Power:1.0W /2.0W  
Rated Impedance:8Ω ± 15%  
Sound Pressure Level:94 ± 3 dB (0.1W/0.1m)  
   at AVE 0.8K 1.0K 1.2K 1.5K Hz  
Resonance Frequency (Fo):500±20% Hz  
Frequency Range:F0~10kHz.



## CONTENTS

※ CONDITION.	
.....	<b>1</b>
※ ELECTRICAL AND ACOUSTICAL SPECIFICATION.	
.....	<b>2</b>
※ MEASURING METHOD	
.....	<b>3</b>
※ FREQUENCY RESPONSE	
.....	<b>4</b>
※ ENVIRONMENT TEST	
.....	<b>5</b>
※ DIMENSIONS	
.....	<b>6</b>

## Specification for speaker



**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.**

1	Rated Input Power.	1.0W.
2	Max Input Power.	2.0W
3	Rated Impedance.	8Ω ± 15%
4	Sound Pressure Level.	94dB(0.1W/0.1m) ± 3 dB
	(S.P.L)	at AVE 0.8K 1.0K 1.2K 1.5K Hz
5	Resonance Frequency (Fo).	500±20%Hz
6	Frequency Range.	F0~10kHz.
7	Distortion	Less than 5% at 1KHz input Rated Power
8	Magnet	Rare earth permanent (NdFeB) magnet Φ12.5*1.5mm
9	Buzz, Rattle, etc.	Should not be audible at 2.83V sine Wave between Fo to 20KHz
10	Polarity	When positive voltage is applied to the terminal marked (+), diaphragm should move to the front.
11	Appearance	Should not exist any obstacle to be harmful to normal operation; damages, cracks, rusts and distortions, etc.
12	Weight.	12.3g
13	Temperature	Operating temperature: -30°C to +70°C
		Storage temperature: -40°C to +85°C

## SPEAKER

### 3. MEASURING METHOD

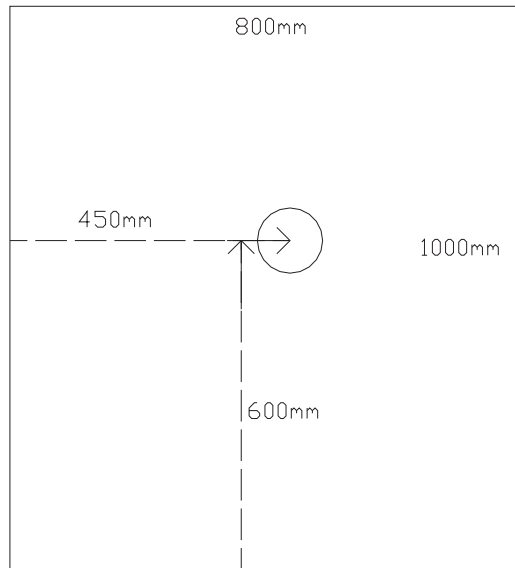


FIG.1

### 3.1 Block Diagram For Measurement Method.

#### Standard test condition of speaker

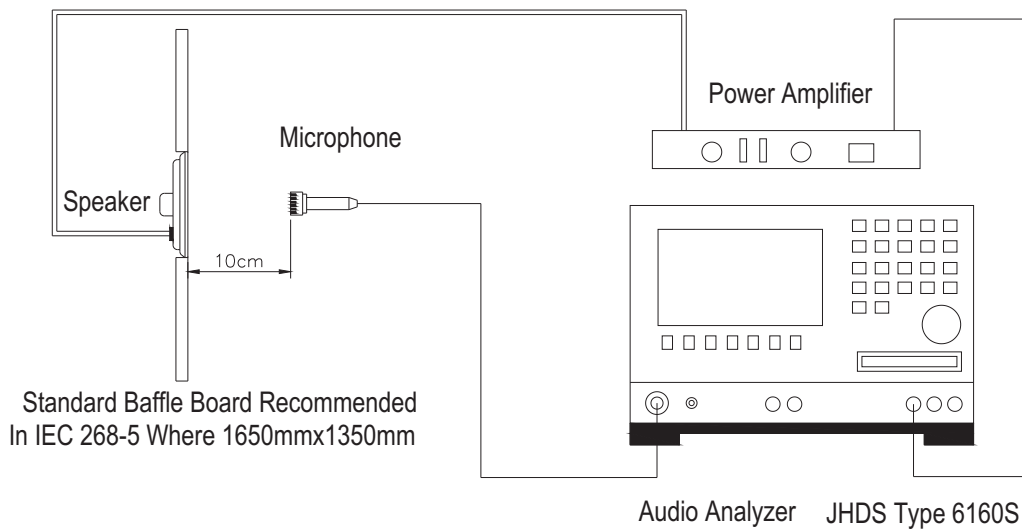


FIG.2

## SPEAKER

### 4. Frequency Response :

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

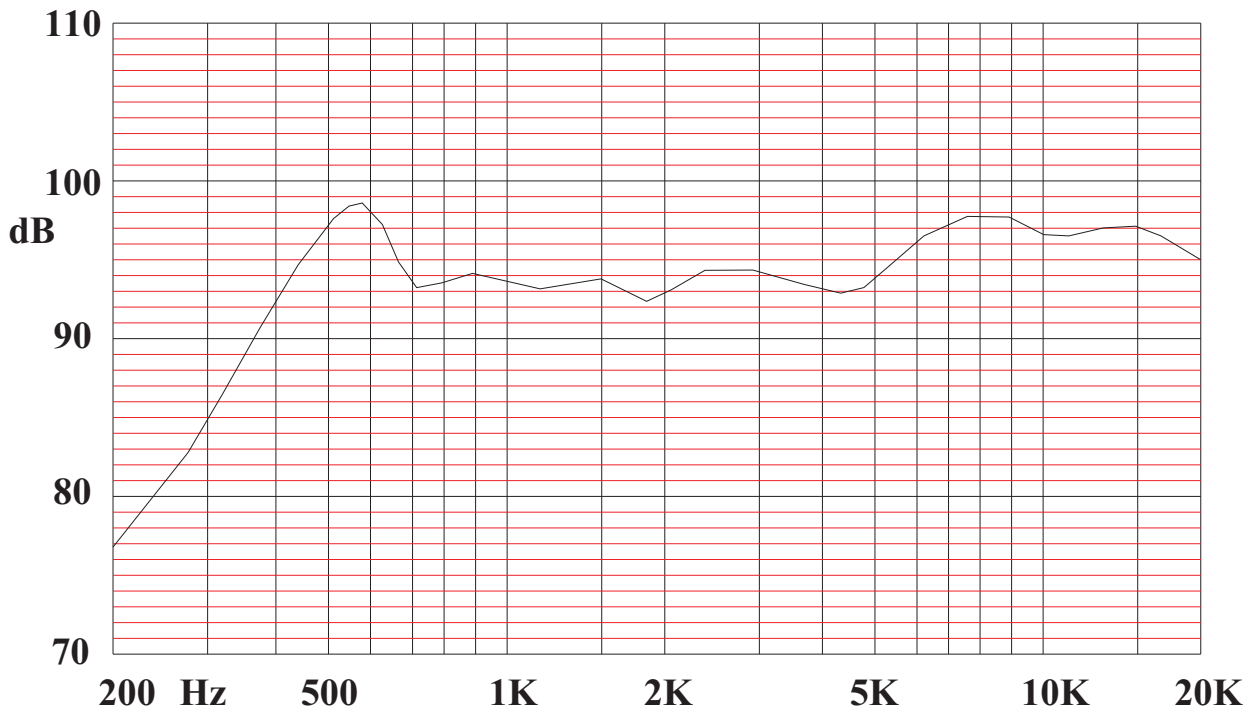


FIG.3

**Specification for speaker**



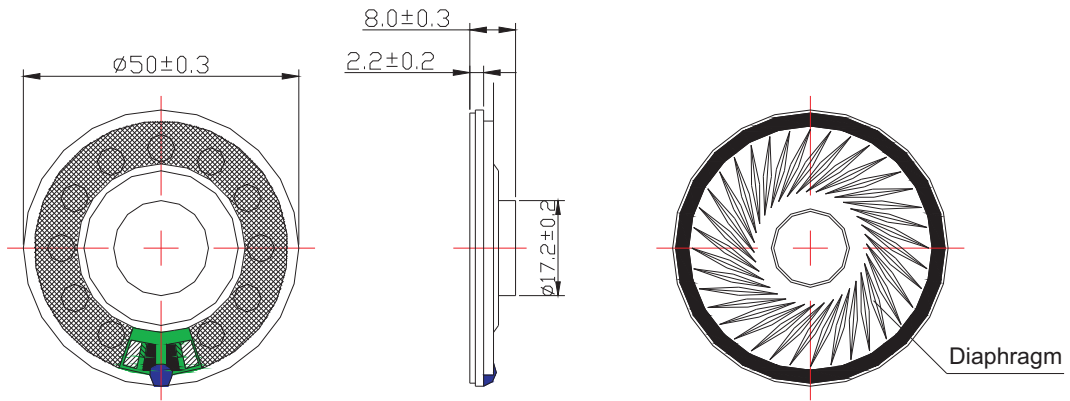
**5. ENVIRONMENT TEST**

ITEM		SPECIFICATIONS
1	<b>High temp. Test</b>	Keep 96 hours at +85 °C ± 3 °C and leave 3 hours in normal temperature and then check
2	<b>Low temp. Test</b>	Keep 96 hours at -40 °C ± 3 °C and leave 3 hours in normal temperature and then check
3	<b>Humidity test</b>	Keep 96 hours at + 40 °C ± 3 °C relative humidity 92-95% and leave 3 hours in normal temperature and then checked.
4	<b>Temp./Humidity cycle</b>	<p>The part shall be subjected 5 cycles. One cycle shall be 12 hours and consist of;</p>
5	<b>Thermal cycle test.</b>	Low temperature: -40 °C ± 3 °C, temperature: +85 °C ± 3 °C, cycle: 1 hour/cycle each, and then keep 5 cycles in a room.
6	<b>Vibration</b>	10~55~10Hz sin-wave sweep 15min. 5G(constant) X,Y, Z 3 direction. 2 hours each, total 6 hours.
7	<b>Fix drop test</b>	Fix on jig. Then drop from 152cm height to the concrete floor X,y, z 6 direction. 5 times each, total 30 times.
8	<b>Free drop test</b>	Free drop from 100cm height to the concrete floor X,Y, Z 6 direction. 1 times each, total 6 times.
9	<b>Load test</b>	Rated Power White noise is applied for 96 hours

**SPEAKER**

**Specification for speaker**

**6.Dimensions**



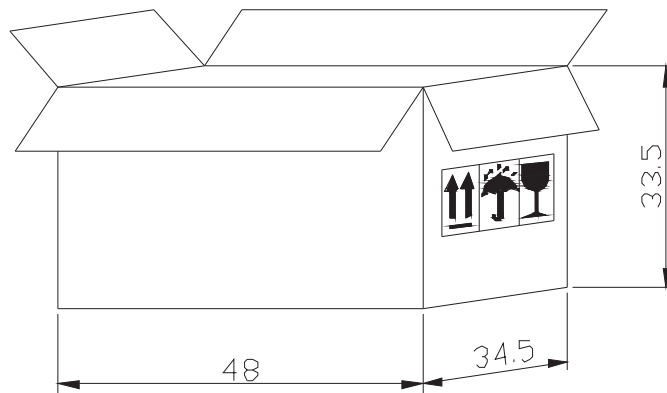
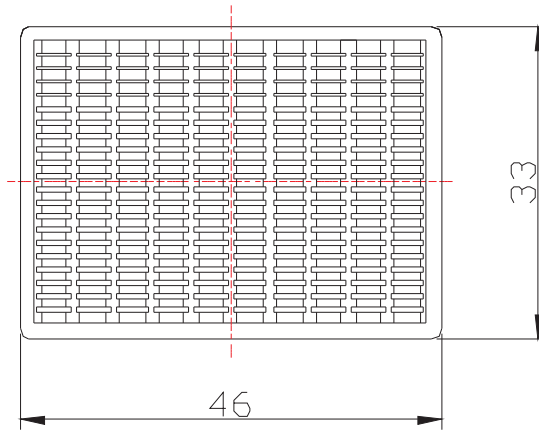
Unit:mm Tol:±0.5

7	Gasket	1	Paper	
6	Diaphragm	1	Pet	
5	VOICE COIL	1	Paper+Cu	
4	Plate	1	SPCC	
3	Magnet	1	NdFeB	
2	PCB Terminal	1	FR4	
1	Frame	1	Spcc	
The material must be meet to GU-001				
PART NO.	PART NAME	Q'TY	MATERIAL	REMARK

**SPEAKER**



7.PACKING



**Remark:**  
200 pcs per tray  
5 trays for unit, 1units per carton  
Total:1000 pcs per box  
Size:48\*34.5\*33.5cm