

# PRODUCT SPECIFICATION

Product Name: ELECTROMAGNETIC BUZZER

Part Number: FCE 208L

Document No: \_\_\_\_\_

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## 1. SPECIFICATION

TYPE (UNIT)	FCE 208L01	FCE 208L03	FCE 208L06	FCE 208L12
Min. Sound Output at 20cm (dB)	70	70	75	75
Rated Voltage (VDC)	1.5	3	6	12
Operating Voltage (VDC)	1.3~2	2~4	5~7	8~15
Resonant Frequency (Hz)	400+/-100	400+/-100	400+/-100	400+/-100
Max. Current Consumption (mA)	20	30	30	25
Tone Nature	Continuous	Continuous	Continuous	Continuous
Operating Temperature (C)	-20~+60	-20~+60	-20~+60	-20~+60
Storage Temperature (C)	-30~+70	-30~+70	-30~+70	-30~+70

## 2. ENVIRONMENTAL TEST

	Item	Specifications
2-1	Storage in High temp.	Storage in +70°C±2°C test box for 96 hours, then expose to the room temperature for 2 hours without applying power.
2-2	Storage in Low temp.	Storage in -30°C±2°C test box for 96 hours, then expose to the room temperature for 2 hours without applying power.
2-3	Storage in Humidity	Storage in +40°C±2°C 90-95%RH test box for 96 hours, then expose to the room temperature for 2 hours without applying power.
2-4	Thermal cycle test.	<p>Make this test for 5 cycles without applying power, then expose to the room temperature for 2 hours.</p>
2-5	Vibration test	<p>Amplitude: 1.5mm Time : 1min/axis</p> <p>Make this test for the directions of X, Y, Z for 2 hours each (total 6 hours).</p>
2-6	Drop test	Free drop a unit from the height 70cm to the surface of 10mm thick board, three directions(X, Y, Z).
2-7	Solderability test	Soldering temp.: 260±5°C Heat applying time: 3±0.5sec.
<p>PASS CRITERION :</p> <p>After these tests, the change of S.P.L shall be within ±5 dB.</p>		

## 3. MEASURING METHOD (BUZZER MODE)

### 3-1 .Test Condition

#### 3-1-1.STANDARD

Temperature :  $25 \pm 3^{\circ}\text{C}$

Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

#### 3-1-2.JUDGEMENT

Temperature :  $15 \sim 35^{\circ}\text{C}$

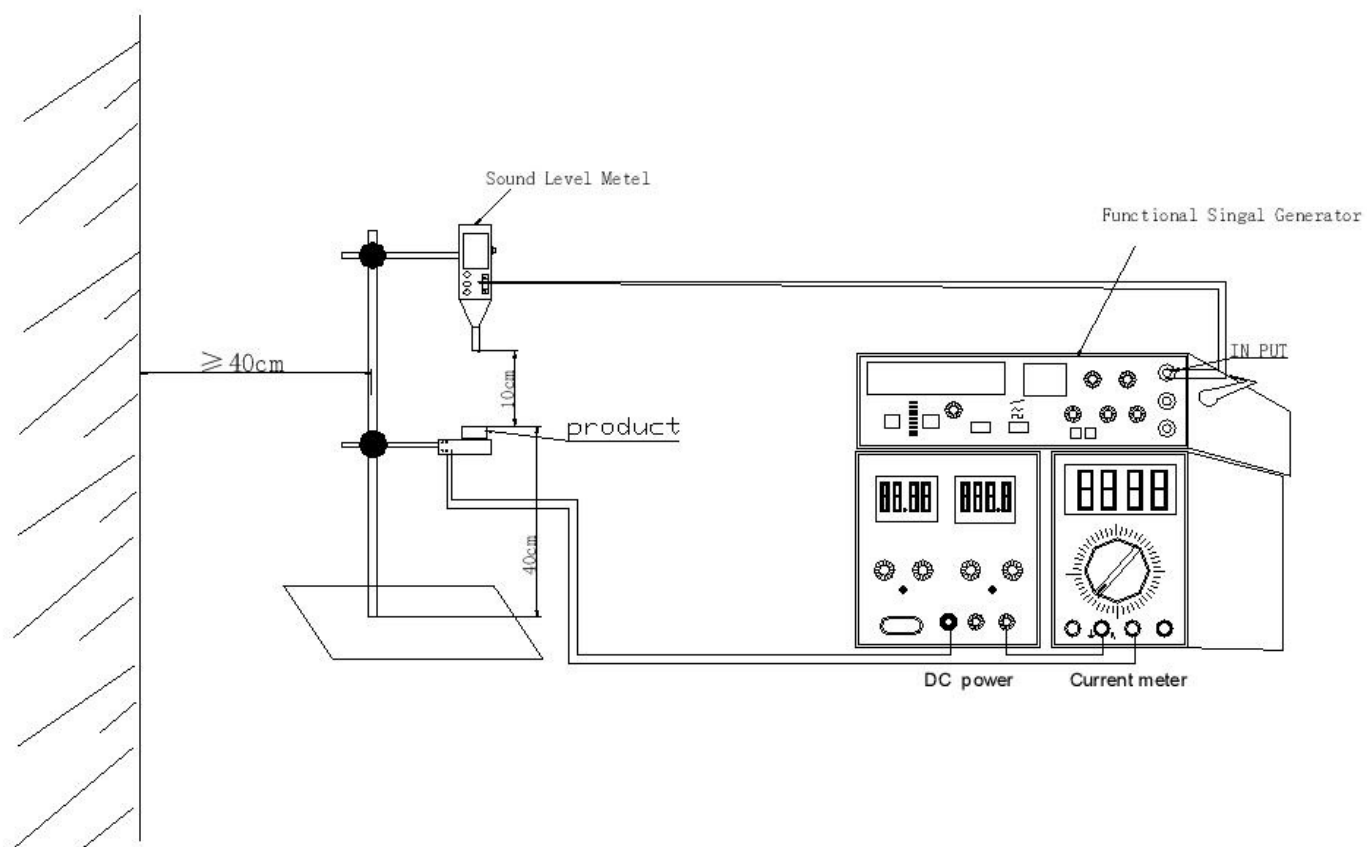
Relative humidity : 45% ~ 85%,

Atmospheric pressure : 860mbar to 1060mbar.

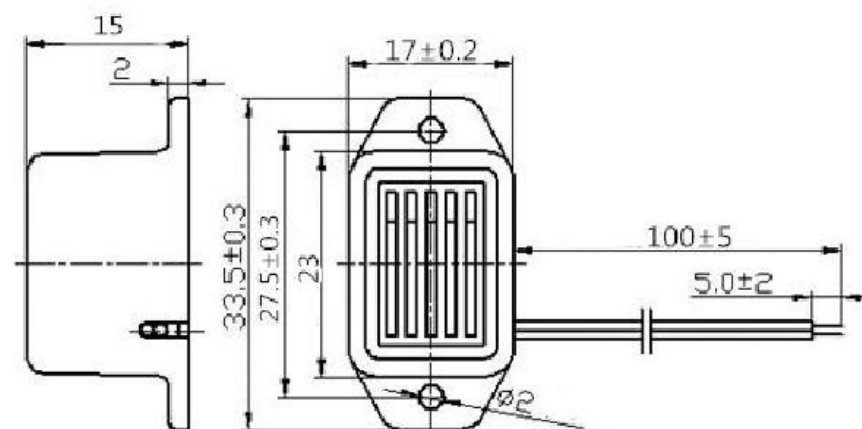
### 3-2 . Standard Test Fixture

1.rated Voltage: 6VDC

2.Resonant Frequency:  $400\text{Hz} \pm 100$



### 4.DIMENSIONS



Unless otherwise specified,tolerance:  $\pm 0.5$ (unit:mm)

- 1) All parts must be meet to ROHS.
- 2) Wave solder and wash not allowed.

## 5.FREQUENCY CURVE

