

PRODUCT SPECIFICATION

Product Name: Mechanical Buzzer

Part Number: MSMX33A04W12

Document No:

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1.SPECIFICATION

TYPE (UNIT)	MSMX33A04W12
Min. Sound Output at 30cm (dB)	85
Rated Voltage (VDC)	12
Operating Voltage (VDC)	8~15
Resonant Frequency (Hz)	400+/-100
Max. Current Consumption (mA)	25
Tone Nature	Continuous
Operating Temperature (C)	-20~+60
Storage Temperature (C)	-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.	<div></div> <p>Make this test for 5 cycles without applying power,then expose to the room temperature for 2 hours.</p>
2-5	Vibration test	<div><p>Amplitude:1.5mm Time :1min/axis</p></div> <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.
PASS CRITERION : After these tests , the change of S.P.L shall be within ±5 dB .		

3.MEASURING METHOD(BUZZER MODE)

3-1 .Test Condition

3-1-1.STANDARD

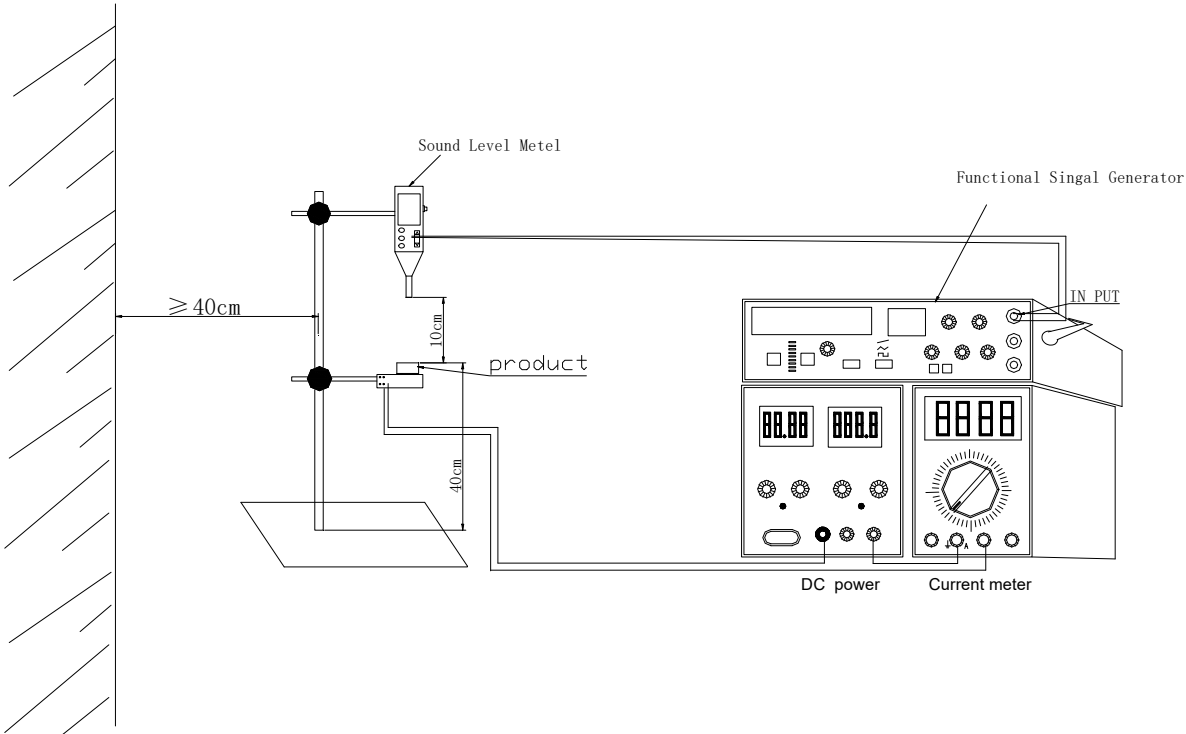
Temperature : $25 \pm 3^{\circ}\text{C}$
Relative humidity : 60% ~ 70%,
Atmospheric pressure : 860mbar to 1060mbar

3-1-2.JUDGEMENT

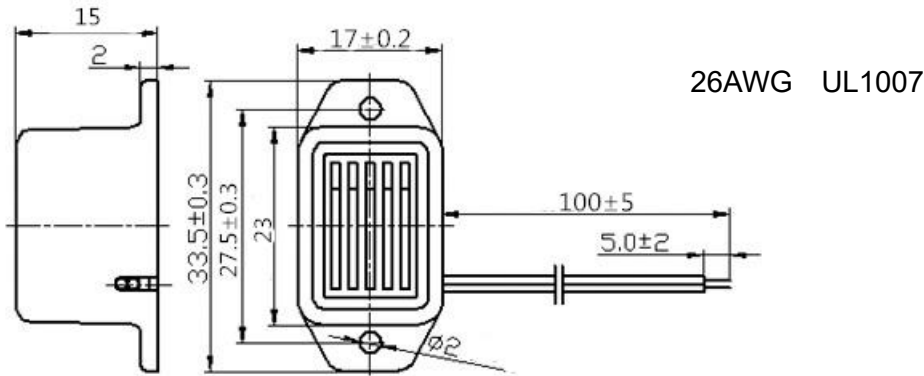
Temperature : $15 \sim 35^{\circ}\text{C}$
Relative humidity : 45% ~ 85%,
Atmospheric pressure : 860mbar to 1060mbar.

3-2 . Standard Test Fixture

- 1.rated Voltage: 6VDC
- 2.Resonant Frequency: $400\text{Hz} \pm 100$



4.DIMENSIONS



Unless otherwise specified,tolerance:±0.5(unit:mm)

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

5.FREQUENCY CURVE

