

PRODUCT SPECIFICATION

Product Name: Mechanical Buzzer

Part Number: MSMX33A04W12

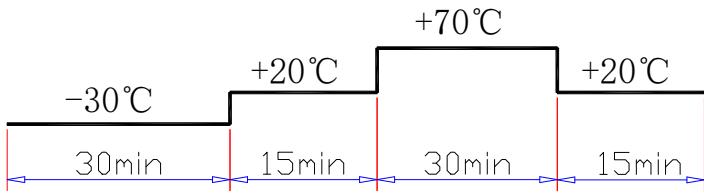
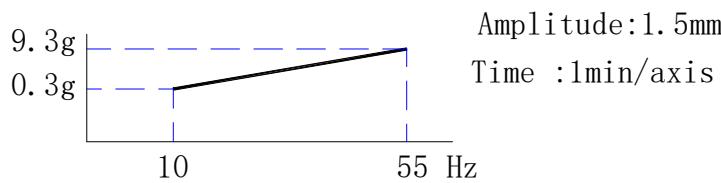
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1. SPECIFICATION

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 $+70^{\circ}\text{C} \pm 2^{\circ}\text{C}$ 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 $-30^{\circ}\text{C} \pm 2^{\circ}\text{C}$ test box for 96 hours, then expose to the room temperature for 2 hours without applying power.
2-3	Storage in Humidity	Storage in $+40^{\circ}\text{C} \pm 2^{\circ}\text{C}$ 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.: $260 \pm 5^{\circ}\text{C}$ Heat applying time: $3 \pm 0.5\text{sec}$.
<p>PASS CRITERION :</p> <p>After these tests, the change of S.P.L shall be within $\pm 5\text{ dB}$.</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 ~ 35°C

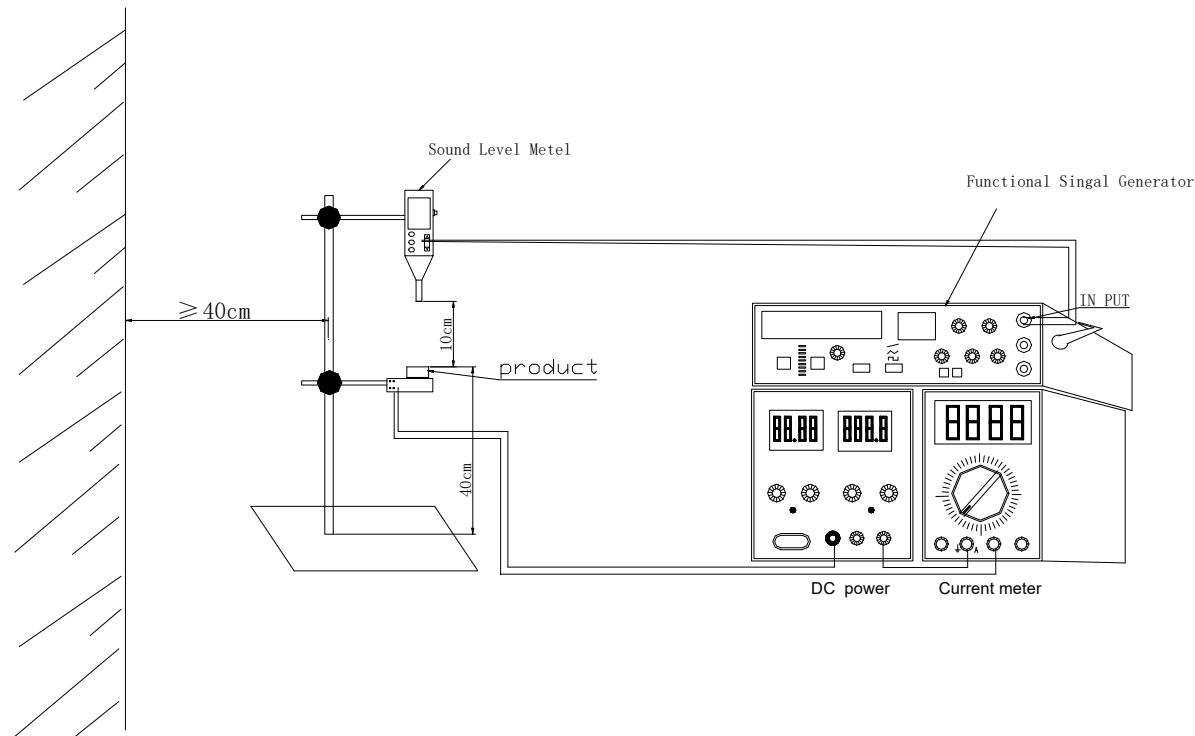
Relative humidity : 45% ~ 85%,

Atmospheric pressure : 860mbar to 1060mbar.

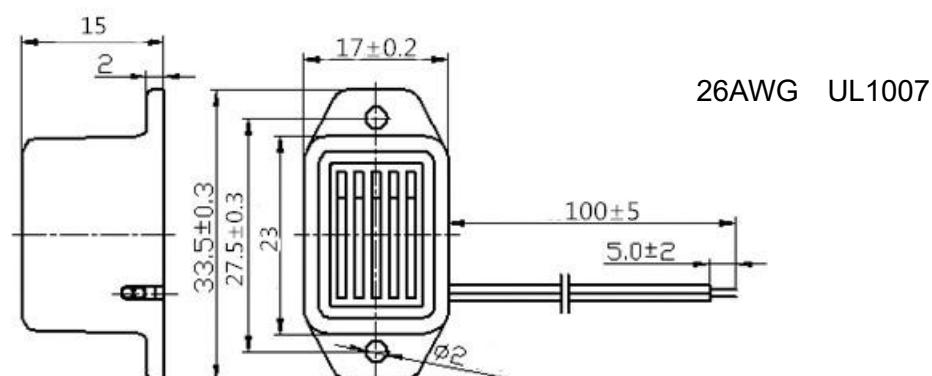
3-2 . Standard Test Fixture

1.rated Voltage: 6VDC

2.Resonant Frequency: 400Hz ± 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

