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## PRODUCT SPECIFICATION

Product Name: Piezo Buzzer

Part Number: MSPT30F32W100V12

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

Date: 2021.05.29

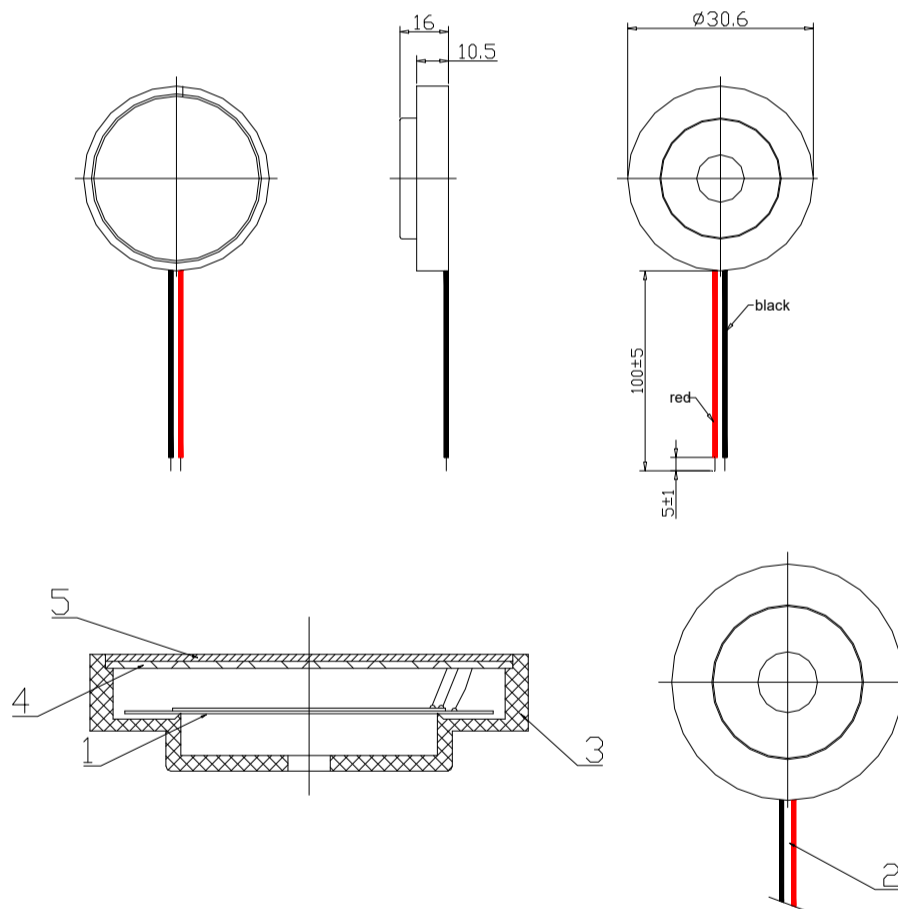
DRAWING BY	CHECKED BY	APPROVED BY
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## 1.SPECIFICATION

Item	Unit	Specifications
Rated Voltage (Square Wave)	Vp-p	12
Operating Voltage	Vp-p	1-40
* Min Sound Output at 3.2kHz/10cm	dB	110(typ.115)
* Resonant Frequency	Hz	3200
Operating Temperature	°C	-30~+70
Storage Temperature	°C	-40~+85
Weight	g	5.0
Housing Material		Black ABS777D
Lead Wire		UL1007 AWG28(Red & Black)
Tone Nature		Single

## 2.APPEARANCE DRAWING

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	Cover	1	Black ABS777D	
4	PCB	1	Epoxy Board	
3	Housing	1	Black ABS777D	
2	Lead wire	2	Black&Red (UL1007 AWG28)	
1	Piezo element	1	stainless steel	
Part No.	Part Name	Q'TY	Material	Remark

## 3.ENVIRONMENTAL TEST

	Item	Specifications
2-1	Storage in High temp.	Storage in $+85^{\circ}\text{C} \pm 2^{\circ}\text{C}$ 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 $-40^{\circ}\text{C} \pm 2^{\circ}\text{C}$ 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).
<p><b>PASS CRITERION :</b></p> <p>After these tests , the change of S.P.L shall be within <math>\pm 5</math> dB .</p>		

## 4.MEASURING METHOD(BUZZER MODE)

### 4-1 .Test Condition

#### 4-1-1.STANDARD

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

Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

#### 4-1-2.JUDGEMENT

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

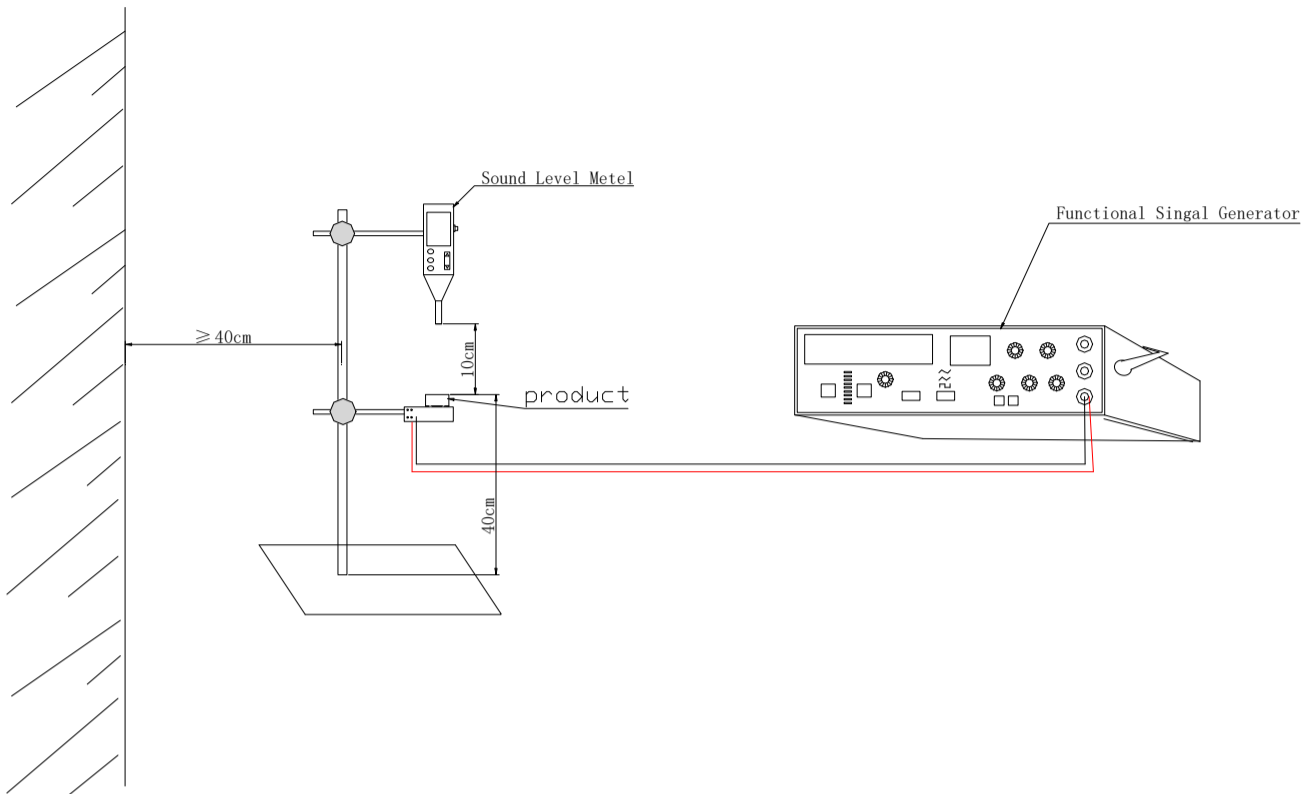
Relative humidity : 45% ~ 85%,

Atmospheric pressure : 860mbar to 1060mbar.

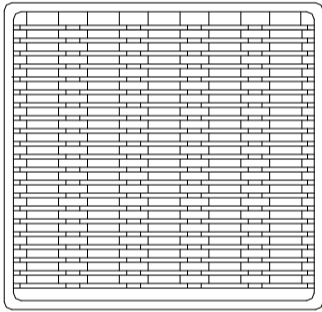
### 4-2 . Standard Test Fixture

1.rated Voltage(Square wave):12V

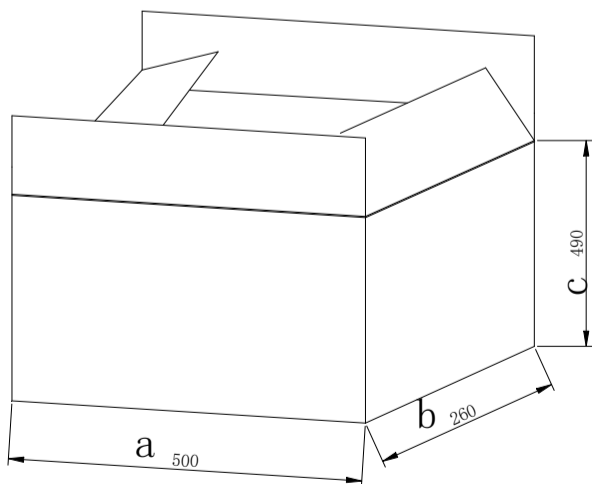
2.Resonant Frequency:3200Hz



## 5. PACKING STANDARD



每盒放50只.



每箱放1000只.