



## PRODUCT SPECIFICATION

Product Name: Piezo Buzzer

Part Number: MSPS30H35W100V24CT

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# MANORSHI ELECTRONICS CO.,LTD

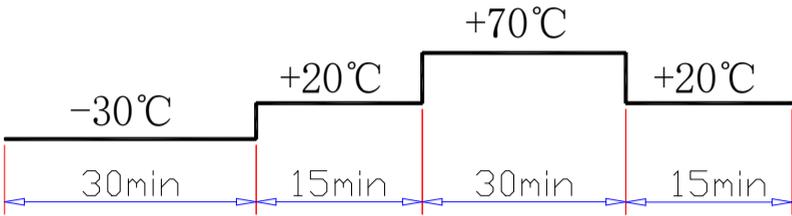
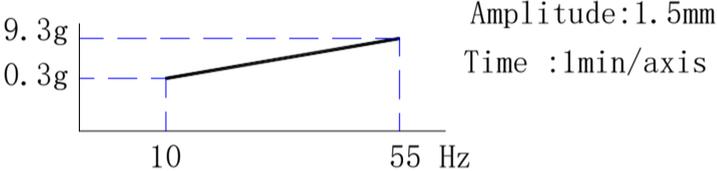
## 1.ELECTRICAL AND ACOUSTICAL SPECIFICATION

No.	Item	Unit	Specifications
1-1	Rated Voltage	VDC	24
1-2	Operating Voltage	VDC	1.5-28
1-3	* Rated Current (Max)	mA	20
1-4	* Min Sound Output at 30cm	dB	95
1-5	* Resonant Frequency	Hz	3500±500
1-6	Tone Nature		Single
1-7	Operating Temperature	°C	-20~+60
1-8	Storage Temperature	°C	-30~+70
1-9	Weight	g	15
1-10	Housing Material		ABS
1-11	Lead Wire		UL1007 AWG26 ( Red & Black )

\* Value Applying at Rated Voltage (DC)

## 2.ENVIRONMENTAL TEST

No.	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>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).
<b>PASS CRITERION :</b> After these tests, the change of S.P.L shall be within $\pm 5$ dB .		
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.

### 3.MEASURING METHOD(BUZZER MODE)

3-1 .Test Condition

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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 ~  $35^{\circ}\text{C}$

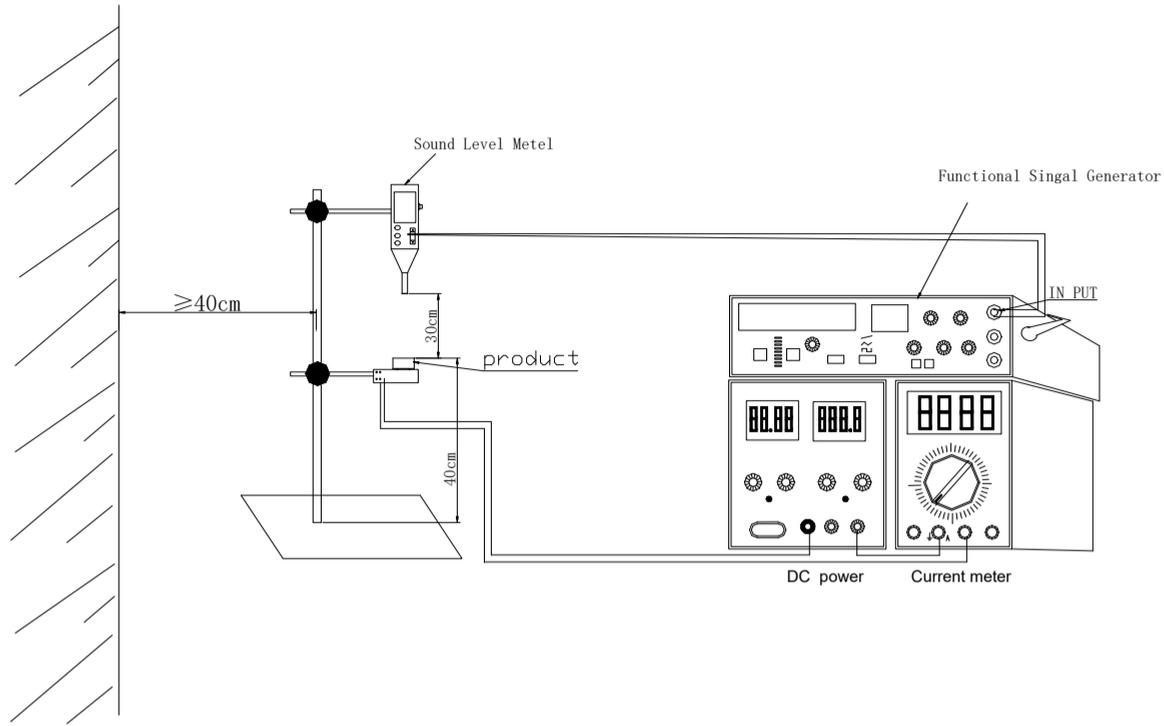
Relative humidity : 45% ~ 85%,

Atmospheric pressure : 860mbar to 1060mbar.

3-2 . Standard Test Fixture

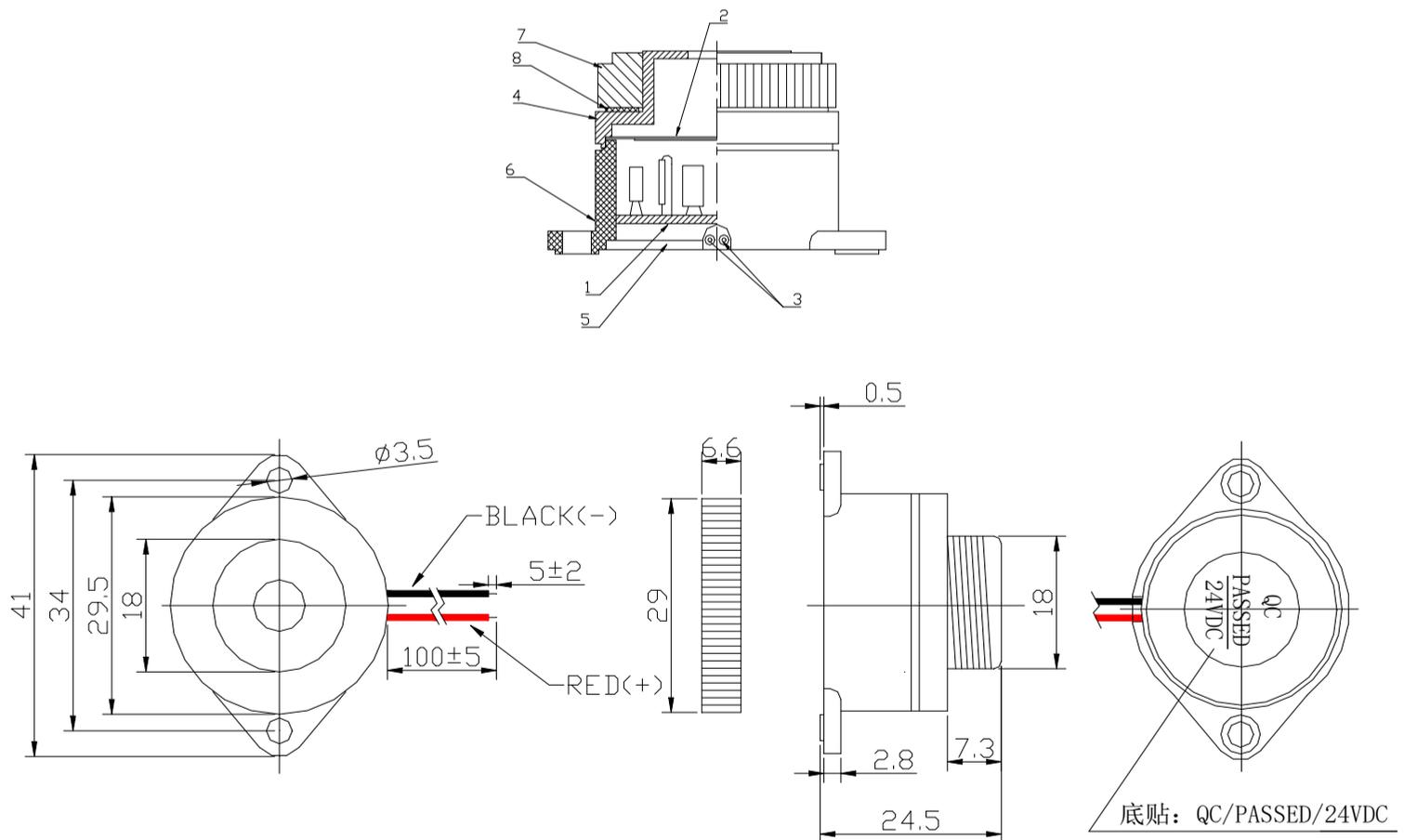
3-2-1.rated Voltage: 24VDC

3-2-2.Resonant Frequency:  $3500\text{Hz} \pm 500$



## 4.DIMENSIONS

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



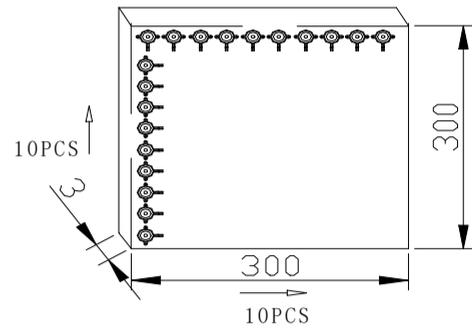


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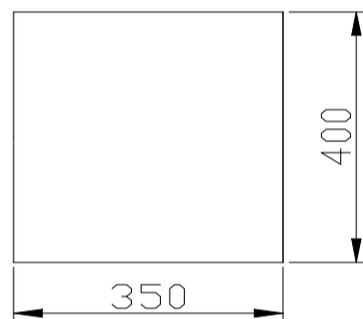
- 1) All parts must be meet to ROHS.
- 2) Wave solder and wash not allowed.

8	Washer	1	Rubber	
7	Cap	1	Black ABS	
6	Housing	1	Black ABS	
5	Cover	1	Black ABS	
4	Housing	1	Black ABS	
3	Lead Wire	2	UL1007 AWG26(Red&Black)	
2	Piezo element	1	Brass	
1	PCB	1	Epoxy Board	
Part No.	Part Name	Q'TY	Material	Remark

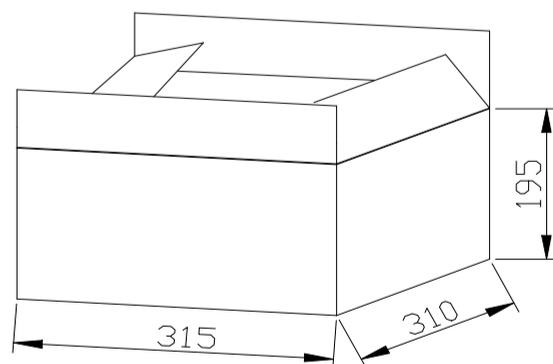
## 5.PACKING



$10 \times 10 \text{PCS} = 100 \text{PCS} / \text{board}$



1 board / bag



5 bag (500 pcs) / CTN