

PRODUCT SPECIFICATION

Product Name	Piezo Buzzer		
Part Number	: <u>MSPS23C29P15V12</u>		
Document No:			
Date:	2021.5.26		

DRAWING BY	CHECKED BY	APPROVED BY	
CHEN YUAN	YUE QIN	JIN LI	

1.ELECTRICAL AND ACOUSTICAL SPECIFICATION



NO.	Item	Unit	Specifications
1-1	1-1 Rated Voltage		12
1-2	1-2 Operating Voltage		3-20
1-3	1-3 *Rated Current (Max)		15
1-4	* Min Sound Output at 30cm	dB	85
1-5	*Resonant Frequency	Hz	2900±500
1-6	Tone Nature		Single
1-7	1-7 Operating Temperature		-30~+70
1-8	Storage Temperature	$^{\circ}$	-40~+85
1-9	Weight	g	6
1-10	Housing Material	Black Noryl	
1-11	Lead Pin Material	Red Copper (DSn)	

^{*} Value Applying at Rated Voltage(DC)

2.ENVIRONMENTAL TEST

No.	Item	Specifications		
2-1	Storage in High temp.	Storage in +85 $^{\circ}$ C \pm 2 $^{\circ}$ 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 $^\circ\!$		
2-3	Storage in Humidity	Storage in +40 $^{\circ}$ C \pm 2 $^{\circ}$ 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.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		
2-5	Vibration test	9. 3g O. 3g Mmplitude: 1. 5mm Time : 1min/axis 10 55 Hz Make this test for the directions of X,Y, Z for 2 hours each (total 6 hours).		
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 $^{\circ}\mathrm{C}$ Heat applying time: $3\pm0.5\mathrm{sec}$.		
DA GG	CDITEDION	•		

PASS CRITERION:

After these tests , the change of S.P.L shall be within $\pm 5 \text{ dB}$.

3.MEASURING METHOD(BUZZER MODE)

3-1 .Test Condition



3-1-1.STANDARD

Temperature : 25 ± 3 °C

Relative humidity: 60% ~ 70%,

Atmospheric pressure: 860mbar to 1060mbar

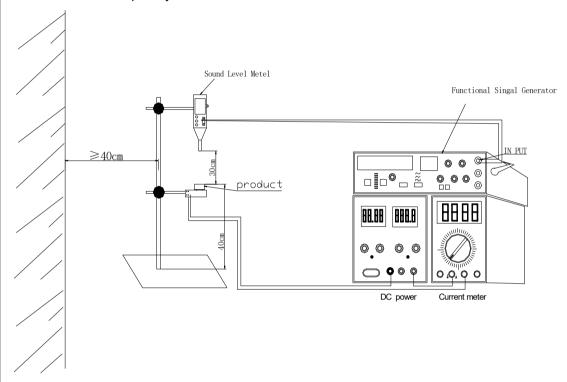
3-1-2.JUDGEMENT Temperature : $15 \sim 35^{\circ}$ C Relative humidity : $45\% \sim 85\%$,

Atmospheric pressure: 860mbar to 1060mbar.

3-2 . Standard Test Fixture

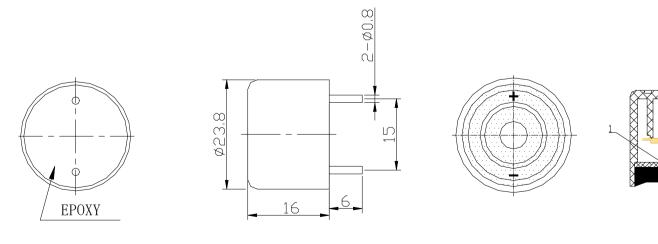
3-2-1.Rated Voltage: 12VDC

3-2-2.Resonant Frequency: 2900Hz±500



4.DIMENSIONS

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



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



5	Lead Wire	3		
4	Potting		Ероху	
3	Housing	1	Black Noryl	
2	Piezo element	1	Brass	
1	PCB	1	Epoxy Board	
Part No.	Part Name	Q'TY	Material	Remark
	4 3 2 1	4 Potting 3 Housing 2 Piezo element 1 PCB	4 Potting 3 Housing 1 2 Piezo element 1 1 PCB 1	4 Potting Epoxy 3 Housing 1 Black Noryl 2 Piezo element 1 Brass 1 PCB 1 Epoxy Board

5.PACKING

