

Product Specification

Number: L-KLS3-PT-4514
Name: Piezo Buzzer
Specification: _____
Customer: E32
Date: 2021-08-27

Customer Signature:



NINGBO KLS ELECTRONIC CO; LTD

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Compile	Check	Review	Approval
Jenny	Jack.C		

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1. ELECTRICAL AND ACOUSTICAL SPECIFICATION

Type	Unit	UGPA45B3012P
Sound Output Level at 30cm 12Vp-p Square wave 3.0KHz (MIN)	dB	100
Frequency response	Hz	2200-4000
Capacitance at 120Hz	nF	140 ± 30%
Continuous drive voltage (MAX)	Vp-p	50 (50% duty cycle)
Intermittent drive Voltage (MAX)	Vp-p	60 (50% duty cycle)
Operating Temperature	° C	-40 - +105
Storage Temperature	° C	-40 - +105

* Value Applying at Rated Voltage (resonant frequency, 1/2 duty, square wave)

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		19.09.05	ZhuYu	Shi Cong	Wang Xue Wen
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2.ENVIRONMENTAL TEST

Item	Specifications
2-1 Storage in High temp.	Storage in $+105^{\circ}\text{C} \pm 2^{\circ}\text{C}$ 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).
2-7 Solderability test	Soldering temp.: $260 \pm 5^{\circ}\text{C}$ Heat applying time: $3 \pm 0.5\text{sec}$.

PASS CRITERION :

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

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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

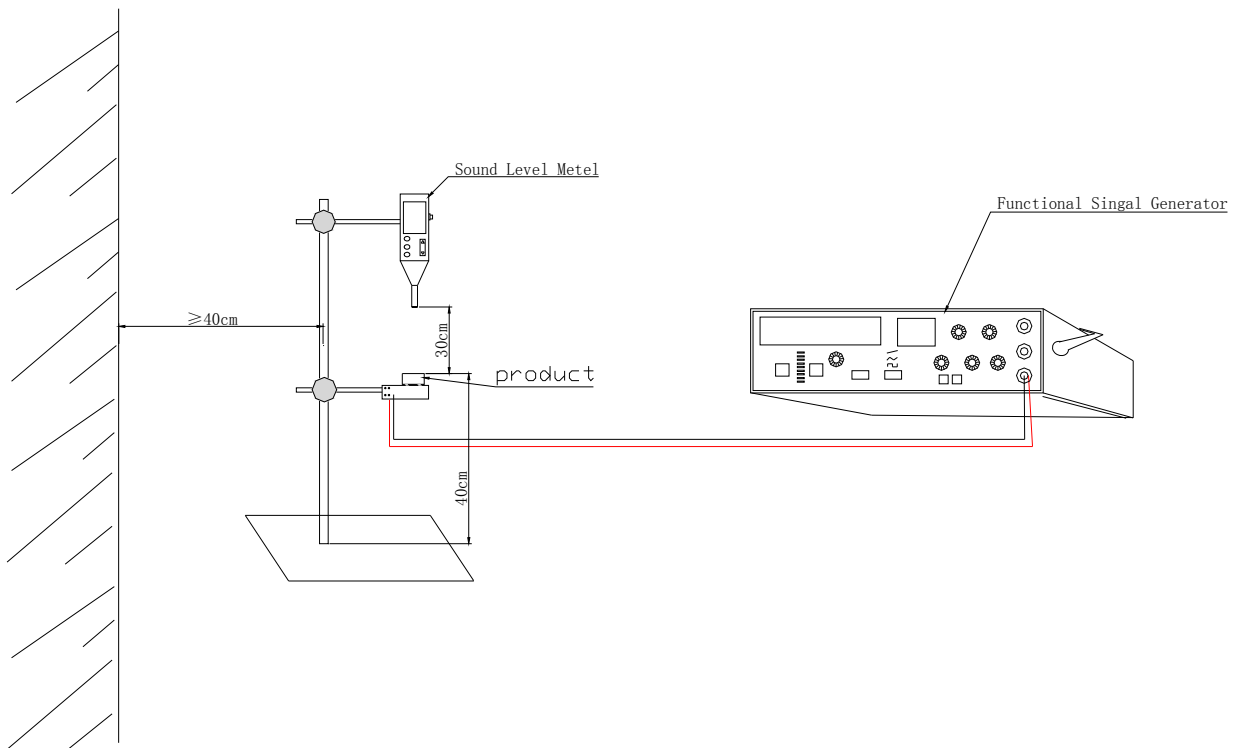
Relative humidity : 45% ~ 85%,

Atmospheric pressure : 860mbar to 1060mbar.

3-2 . Standard Test Fixture

1.rated Voltage(Square wave):12V

2.Resonant Frequency:3000Hz



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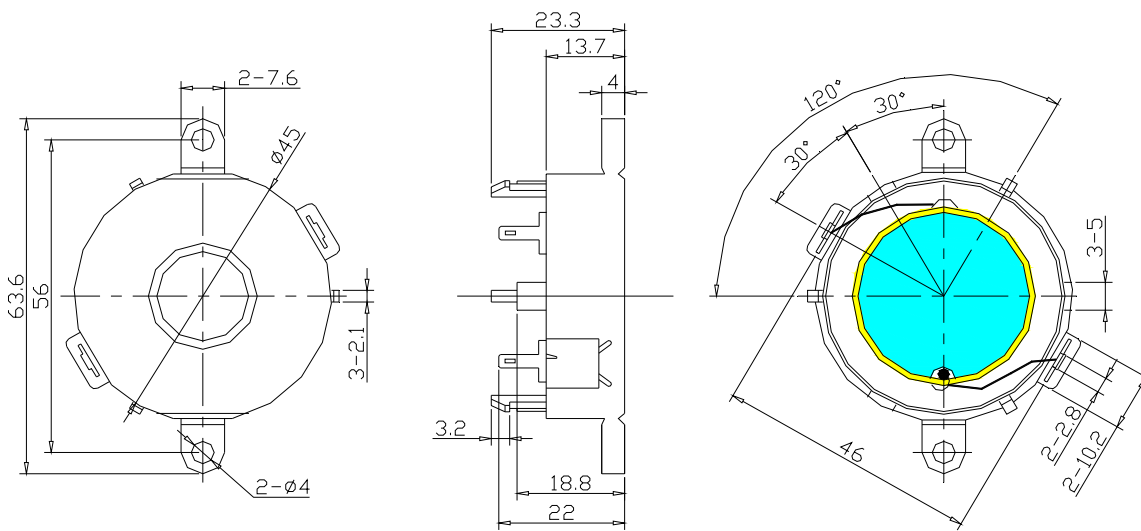
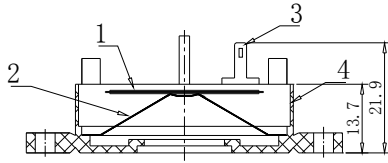
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4.DIMENSIONS

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



1) All parts must be meet to ROHS.

4	Housing	1	NYLON PA46	
3	Lead Pin	2	Red Copper(DSn)	
2	Film			
1	Piezo element	1	Brass	
Part No.	Part Name	Q'TY	Material	Remark

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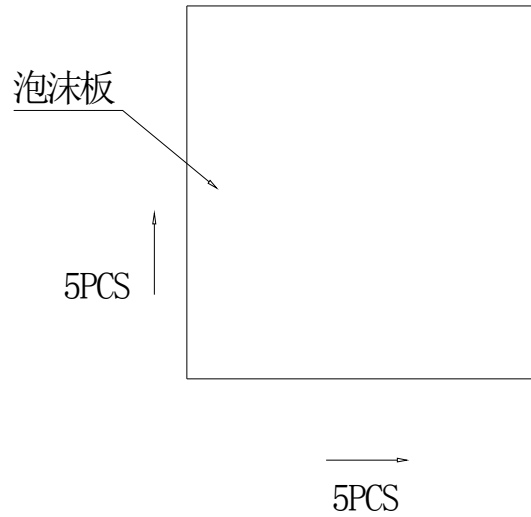
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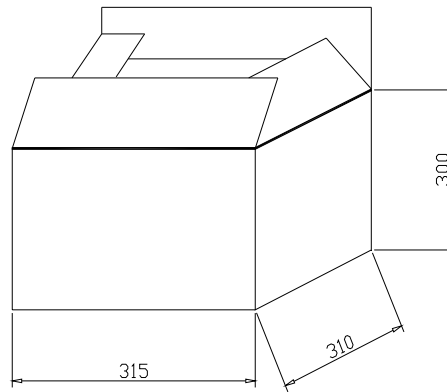
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5.PACKING



5×5=25PCS/board 每板放5×5=25只



250pcs/ctn 每箱放250只

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