

1. Externally driven piezo buzzer electrical specification:

PART NO:L-KLS3-PT-22*08

Item	Unit	Specifications
1-1	Rated Voltage (Square Wave)	Vp-p 9 (3Vp-p~12Vp-p Customizable)
1-2	Max.Allowable Voltage	Vp-p 30
1-3	Rated Current (Max)	mA 7
1-4	Min Sound Output at 4.0kHz/10cm	dB 80
1-5	Resonant Frequency	Hz 4000±500
1-6	Capacitance at 120Hz	pF 15000±30%
1-7	Operating Temperature	°C -40~+85
1-8	Storage Temperature	°C -40~+105
1-9	Weight	g 2.5
1-10	Housing Material	PBT
1-11	Lead Pin Material	Phosphor Bronze (DSn)

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

2.ENVIRONMENTAL TEST

Item	Specifications
2-1	Storage in High temp. Storage in +85°C±2°C test box for 240 hours, then expose to the room temperature for 2 hours without applying power.
2-2	Storage in Lower temp. Storage in -40°C±2°C test box for 240 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>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 100cm to the surface of 10mm thick board ,three directions(X,Y,Z).
2-7	Solderability test Soldering temp.:260±5°C Heat applying time: 3±0.5sec.

PASS CRITERION :

After these tests , the change of S.P.L shall be within ±5 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

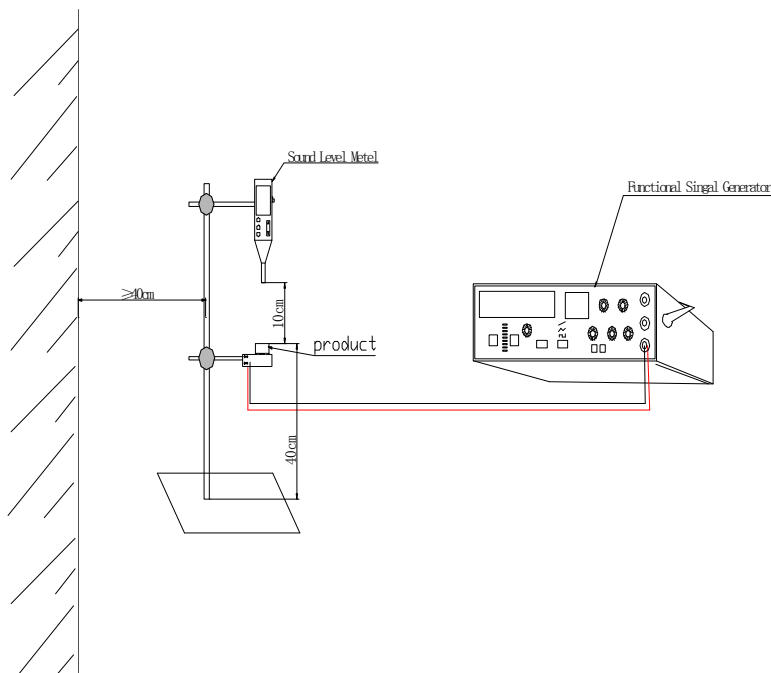
Relative humidity : 45% ~ 85%,

Atmospheric pressure : 860mbar to 1060mbar.

3-2 . Standard Test Fixture

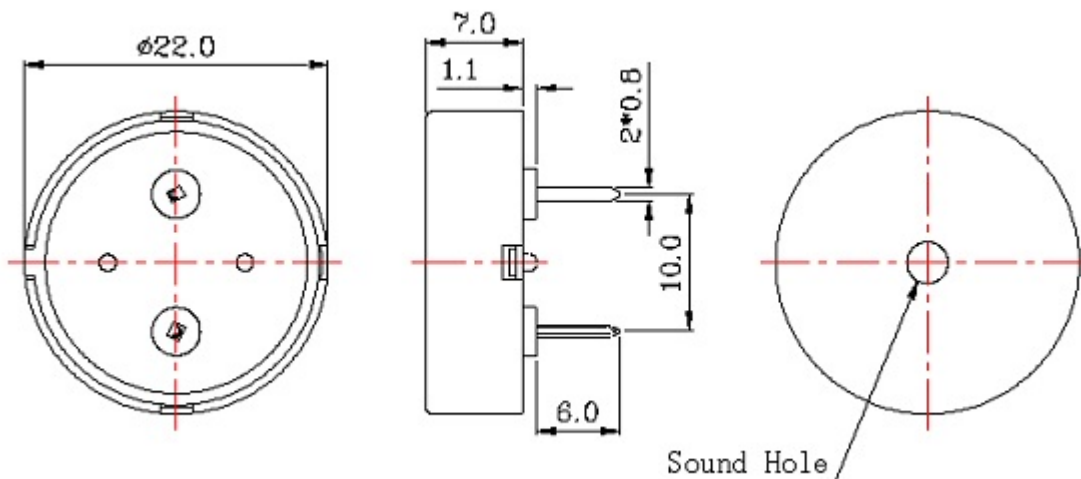
1.rated Voltage(Square wave):9V

2.Resonant Frequency:4000Hz



4.DIMENSIONS

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



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

7				
6				
5				
4	Cover	1	Black Noryl	
3	Pin	2	Phosphor Bronze (DSn)	
2	Piezo element	1	Brass	
1	Housing	1	Black Noryl	
Part No.	Part Name	Q'TY	Material	Remark

6.PACKING

