1. ELECTRICAL AND ACOUSTICAL SPECIFICATION

PART NO:L-KLS3-LPT-13x2.5

Item			Specifications	
1-1	Rated Voltage (Square Wave)	Vp-p	10	
1-2	Operating Voltage	Vp-p	1-30	
1-3	*Rated Current (Max)	mA	5	
1-4	* Min Sound Output at 4.8kHz/10cm	dB	80	
1-5	* Resonant Frequency	Hz	4800±500	
1-6	Capacitance at 120Hz	pF	15000±30%	
1-7	Operating Temperature	$^{\circ}$ C	-20~+60	
1-8	Storage Temperature	$^{\circ}$ C	-30~+70	
1-9	Weight	g	1	
1-10	Housing Material	Black ABS		
1-11	Lead Wire	UL1571 AWG30		
1-12	Tone Nature	Single		

^{*} 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 +70°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 -30 °C \pm 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 $+40^{\circ}\text{C} \pm 2^{\circ}\text{C}$ 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.	$+70^{\circ}\text{C}$ -30°C $+20^{\circ}\text{C}$ $+20$			
2-5	Vibration test	9. 3g 0. 3g 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 100cm to the surface of 10mm thick board ,three directions(X,Y,Z).			
2-7	Solderability test	Soldering temp.:260 \pm 5 $^{\circ}$ C Heat applying time: 3 \pm 0.5 sec.			

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℃

Relative humidity: 60% ~ 70%,

Atmospheric pressure: 860mbar to 1060mbar

3-1-2.JUDGEMENT Temperature : $15 \sim 35^{\circ}$ C

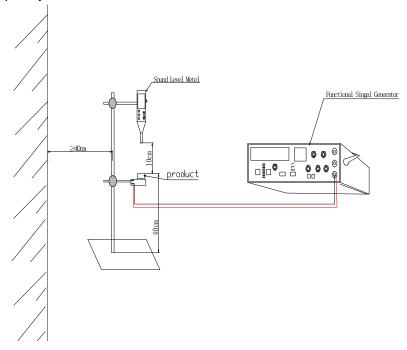
Relative humidity: 45% ~ 85%,

Atmospheric pressure: 860mbar to 1060mbar.

3-2 . Standard Test Fixture

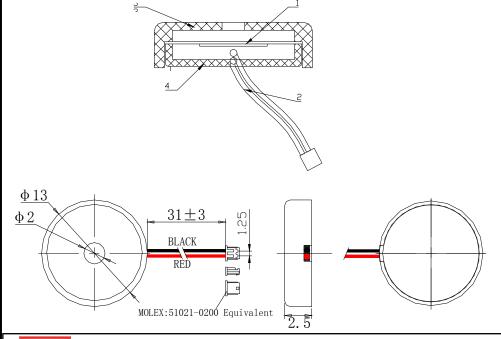
1.rated Voltage(Square wave):10V

2.Resonant Frequency:4800Hz



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.

5	Double Glue	1		
4	Cover	1	Black ABS	
3	Housing	1	Black ABS	
2	Lead wire	2	Black&Red (UL1571 30#)	
			Molex:51021-0200 Equivalent	
1	Piezo element	1	Brass	
Part No.	Part Name	Q'TY	Material	Remark

6.PACKING

