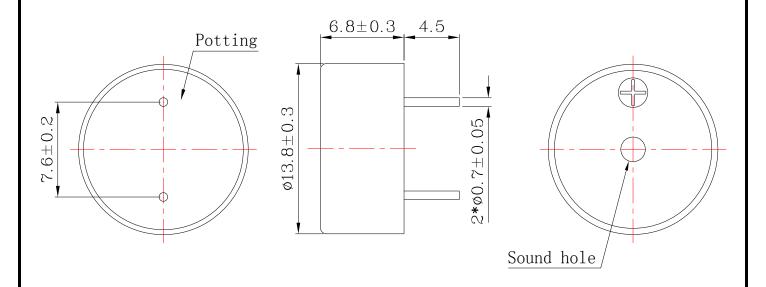
## A. SCOPE

This specification applies Externally driven piezo buzzer, L-KLS3-PT-14\*7

## **B. SPECIFICATION**

No.	ltem	Unit	Specification	Condition
1	Oscillation Frequency	Hz	4000	square wave
2	Max.Allowable Voltage	Vp-p	30	
3	Rated Voltage	Vp-p	5 (3Vp-p~12Vp-p Customizable)	
4	Current Consumption	mA	MAX. 2	at Rated Voltage
5	Sound Pressure Level	dB	MIN. 80	at 10cm at Rated Voltage
6	Electrostatic Capacity	pF	15000±30%	at 100Hz 1V
7	Operating Temperature	$^{\circ}\!\mathbb{C}$	-40~ +85	
8	Storage Temperature	$^{\circ}\!\mathbb{C}$	-40 ~ +105	
9	Dimension	mm	Ф13.8 х Н6.8	See appearance drawing
10	Weight (MAX)	gram	1.0	
11	Housing Material		PPO( Black )	
12	Leading Pin		Tin Plated Brass(Sn)	See appearance drawing
13	Environmental Protection Regulation		RoHS	

# C. APPEARANCE DRAWING



Tol : ± 0.5 Unit: mm



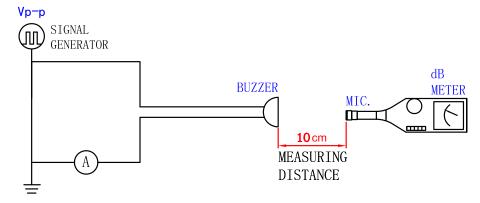
#### **D.TESTING METHOD**

## **Standard Measurement conditions**

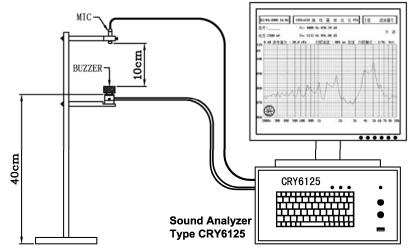
Temperature:25±2°C Humidity:45-65%

#### **Acoustic Characteristics:**

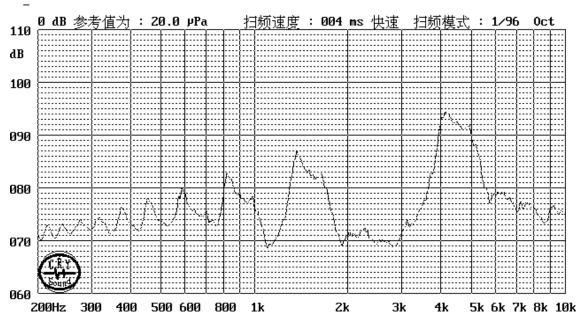
The oscillation frequency, current consumption and sound pressure are measured by the measuring instruments shown below



In the measuring test, buzzer is placed as follows:



## E. Typical Frequency Response Curve





## F RELIABILITY TEST

**ITEM** 

NO.

1	High Temperature Test (Storage)	After being placed in a chamber with 90±2°C for 240 hours and then	
1		being placed in normal condition for 2 hours.  Allowable variation of SPL after test: ±10dB.	
	Low Temperature Test (Storage)  Humidity Test	After being Placed in a chamber with -40±2°C for 240 hours and then	
2		being placed in normal condition for 2 hours.	
		Allowable variation of SPL after test: ±10dB.	
2		After being Placed in a chamber with 90-95% R.H. at 40±2°C for 96	
3		hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: ±10dB.	
	Temperature Cycle Test	The part shall be subjected to 5 cycles. One cycle shall be consist of:	
		The part shall be subjected to 3 cycles. One cycle shall be consist of	
		+85°C	
		+25°C +25°C	
4			
4		-40°C	
		40 C	
		0.5hr 0.5 0.25 0.5 0.5 0.25	
		3hours	
Allowable variation of SPL after test: ±10dB.			
5	Drop Test	Drop on a hard wood board of 4cm thick, any directions ,6 times, at the height of 75cm.	
		Allowable variation of SPL after test: ±10dB.	
		After being applied vibration of amplitude of 1.5mm with 10 to 55 Hz	
6	Vibration Test	band of vibration frequency to each of 3 perpendicular directions for	
0		2 hours.	
		Allowable variation of SPL after test: ±10dB.	
	Solderability Test	Lead terminals are immersed in rosin for 5 seconds and then	
7		immersed in solder bath of +270±5°C for 3±1 seconds.  90% min. lead terminals shall be wet with solder	
	1031	(Except the edge of terminals).	
	Terminal Strength	The force of 9.8N(1.0kg) is applied to each terminal in axial direction for	
8		10 seconds.	
	Pulling Test	No visible damage and cutting off.	
	NOTION		

**TEST CONDITION AND REQUIREMENT** 

#### TEST CONDITION.

 Standard Test Condition
 : a) Temperature: +5 ~ +35℃
 b) Humidity: 45-85%
 c) Pressure: 860-1060mbar

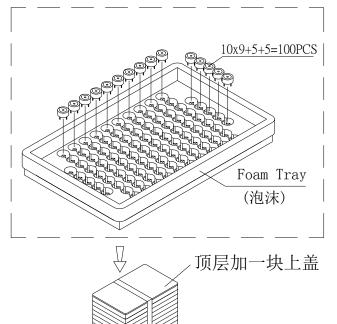
 一般测试条件
 : a) 温度: +5 ~ +35℃
 b) 湿度: 45-85%
 c) 气压: 860-1060mbar

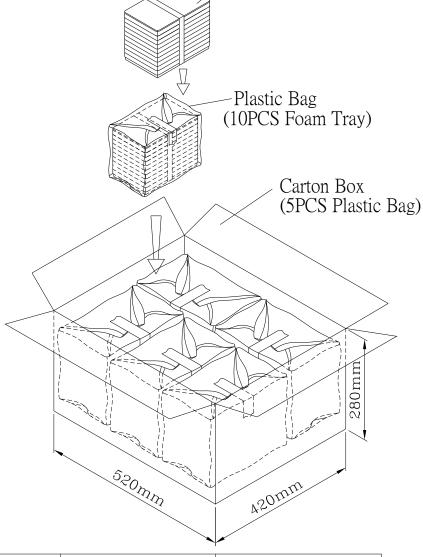
 Judgment Test Condition
 : a) Temperature: +25±2℃
 b) Humidity: 60-70%
 c) Pressure: 860-1060mbar

 争议时测试条件
 : a) 温度: +25±2℃
 b) 湿度: 60-70%
 c) 气压: 860-1060mbar



## **G. PACKING STANDARD**





Foam Tray	240mmx160mmx30mm	1x100PCS=100PCS
Plastic Bag		10x100PCS=1000PCS
Carton Box	520mmx420mmx280mm	5x1000PCS=5,000PCS

