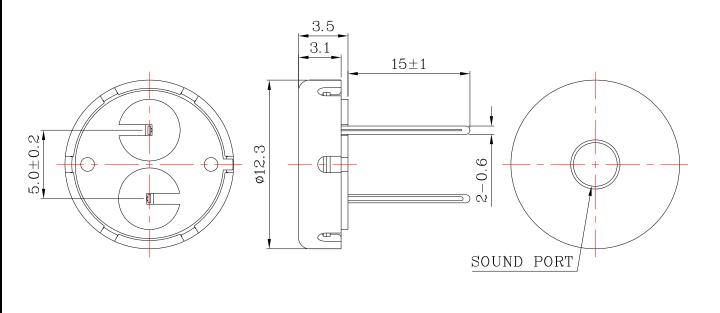
## A. SCOPE

This specification applies Externally driven piezo buzzer, L-KLS3-PT-12\*3.5

## **B. SPECIFICATION**

No.	ltem	Unit	Specification	Condition
1	Oscillation Frequency	Hz	4000	square wave
2	Max.Allowable Voltage	Vp-р	30	
3	Rated Voltage	Vp-р	3 (3Vp-p~12Vp-p Customizable)	
4	Current Consumption	mA	MAX. 3	at Rated Voltage
5	Sound Pressure Level	dB	MIN. 60	at 10cm at Rated Voltage
6	Electrostatic Capacity	pF	12000±30%	at 100Hz 1V
7	Operating Temperature	°C	-40~ +85	
8	Storage Temperature	°C	-40 ~ +105	
9	Dimension	mm	Ф12.2 х Н3.5	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





KLS

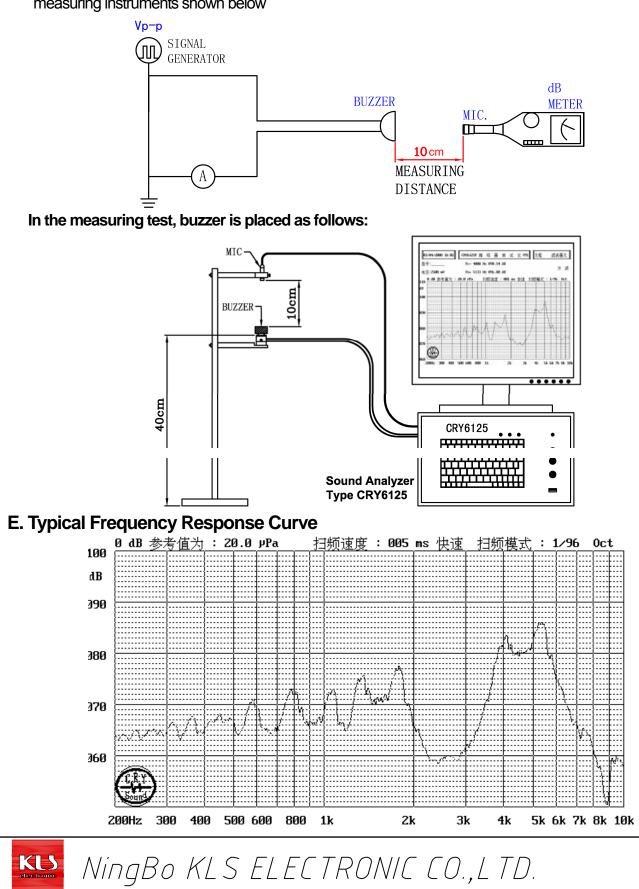
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#### D.TESTING METHOD Standard Measurement conditions

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



## F. RELIABILITY TEST

NO.	ITEM	TEST CONDITION AND REQUIREMENT		
	High Temperature	After being placed in a chamber with 80±2°C for 96 hours and then		
1		being placed in normal condition for 2 hours.		
	Test (Storage)	Allowable variation of SPL after test: ±10dB.		
	Low Temperature Test (Storage)	After being Placed in a chamber with -30±2°C for 96 hours and then		
2		being placed in normal condition for 2 hours.		
		Allowable variation of SPL after test: ±10dB.		
	Humidity Test	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 Drop Test	The part shall be subjected to 5 cycles. One cycle shall be consist of :		
		+70°C		
		+25°C +25°C		
4				
		- 20°C		
		0.5hr 0.5 0.25 0.5 0.5 0.5 0.25		
		Allowable variation of SPL after test: ±10dB.		
5		Drop on a hard wood board of 4cm thick, any directions ,6 times, at the height of 75cm.		
5		Allowable variation of SPL after test: ±10dB.		
		After being applied vibration of amplitude of 1.5mm with 10 to 55 Hz		
	Vibration Test	band of vibration frequency to each of 3 perpendicular directions for		
6		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 $+300\pm5^{\circ}$ C for $3\pm1$ seconds.		
1		90% min. lead terminals shall be wet with solder		
		(Except the edge of terminals).		
	Terminal Strength Pulling Test	The force of 9.8N(1.0kg) is applied to each terminal in axial direction for		
8		10 seconds.		
		No visible damage and cutting off.		
TEST C	ONDITION.			
	Test Condition :	a) Temperature : +5 ~ +35°C b) Humidity : 45-85% c) Pressure : 860-1060mbar		
		a) 温度 : +5~+35℃ b) 湿度 : 45-85% c) 气压 : 860-1060mbar		
Judgmer	nt Test Condition :	a) Temperature : +25 $\pm$ 2°C b) Humidity : 60-70% c) Pressure : 860-1060mbar		

#The feat Condition : a) iemperature : +25 ± 2 ℃ b) Humidity : 60-70% c) Pressure : 600-1060mbar 争议时测试条件 : a) 温度 : +25 ± 2 ℃ b) 湿度 : 60-70% c) 气压 : 860-1060mbar



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### **G. PACKING STANDARD**

Each minimum package unit of products shall be in a carton box and it shall be clearly marked with Part Number, quantity and outgoing inspection number. There shall be no mechanical damage on products during transportation and/or in storage.



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