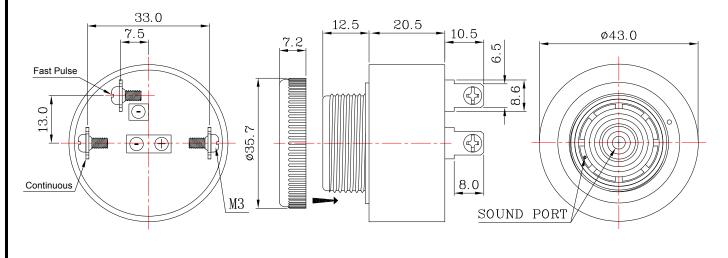
A. SCOPE

This specification applies Internally driven piezo buzzer, L-KLS3-PB-43*33-3P

B. SPECIFICATION

No.	ltem	Unit	Specification	Condition
1	Oscillation Frequency	KHz	2.9±0.5	
2	Operating Voltage	VDC	10~28	
3	Rated Voltage	VDC	12	
4	Current Consumption	mA	MAX. 30	at Rated Voltage
5	Sound Pressure Level	dB	MIN. 90	at 30cm at Rated Voltage
6	Tone		Continuous+Fast Pulse	
7	Operating Temperature	°C	-40 ~ +80	
8	Storage Temperature	°C	-40 ~ +105	
9	Dimension	mm	Ф43.0 х Н33.0	See appearance drawing
10	Weight (MAX)	gram	38.5	
11	Housing Material		ABS(Black)	
12	Leading Pin		Plating (Ni)	See appearance drawing
13	Environmental Protection Regulation		RoHS	

C. APPEARANCE DRAWING





KLS

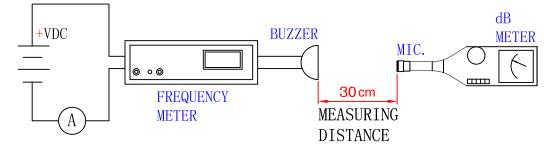
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D.TESTING METHOD Standard Measurement conditions

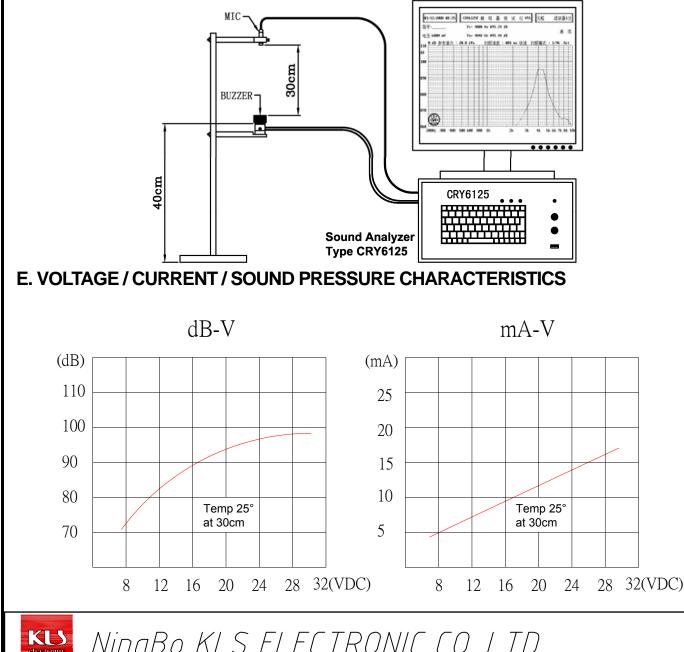
Temperature:25±2°C Humidity:45-65%

Acoustic Characteristics:

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



In the measuring test, buzzer is placed as follows:



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F. RELIABILITY TEST

NO.	ITEM	TEST CONDITION AND REQUIREMENT		
	High Temperature	After being placed in a chamber with 70±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	The part shall be subjected to 5 cycles. One cycle shall be consist of :		
		+60°C		
		+25°C +25°C		
4				
		- 20°C		
		$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		
		3hours		
		Allowable variation of SPL after test: ±10dB.		
~	Drop Test	Drop on a hard wood board of 4cm thick, any directions ,6 times,		
5		at the height of 75cm.		
		Allowable variation of SPL after test: ±10dB.		
	Vibration Test	After being applied vibration of amplitude of 1.5mm with 10 to 55 Hz		
6		band of vibration frequency to each of 3 perpendicular directions for 2 hours.		
		Allowable variation of SPL after test: ±10dB.		
	Solderability Test	Lead terminals are immersed in rosin for 5 seconds and then		
		immersed in solder bath of $+300\pm5^{\circ}$ C for 3 ± 1 seconds.		
7		90% min. lead terminals shall be wet with solder		
		(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.		
TEST CO	ONDITION.			
Standard	Test Condition :	a) Temperature : +5 ~ +35 $^\circ\mathrm{C}$ b) Humidity : 45-85% c) Pressure : 860-1060mbar		
		a) 温度:+5~+35℃ b) 湿度:45-85% c) 气压:860-1060mbar		
Judgmer	it Test Condition :	a) Temperature : +25 \pm 2°C b) Humidity : 60-70% c) Pressure : 860-1060mbar		

ent lest 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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