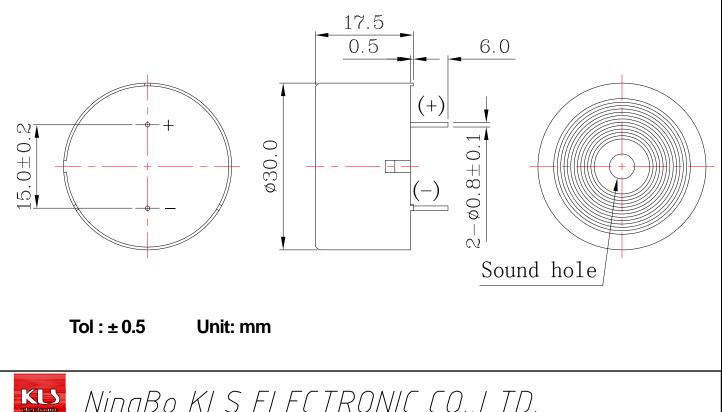
A. SCOPE

This specification applies Internally driven piezo buzzer, L-KLS3-PB-30*18

B. S	B. SPECIFICATION					
No.	ltem	Unit	Specification	Condition		
1	Oscillation Frequency	KHz	3.5±0.5			
2	Operating Voltage	VDC	3~20			
3	Rated Voltage	VDC	12			
4	Current Consumption	mA	MAX. 15	at Rated Voltage		
5	Sound Pressure Level	dB	MIN. 100	at 10cm at Rated Voltage		
6	Tone Nature		Constant			
7	Operating Temperature	°C	-20~ +70			
8	Storage Temperature	°C	-30 ~ +80			
9	Dimension	mm	Ф30 х Н17.5	See appearance drawing		
10	Weight (MAX)	gram	6.7			
11	Housing Material		ABS (Black)			
12	Leading Pin		Tin Plated Brass(Sn)	See appearance drawing		
13	Environmental Protection Regulation		RoHS			

C. APPEARANCE DRAWING



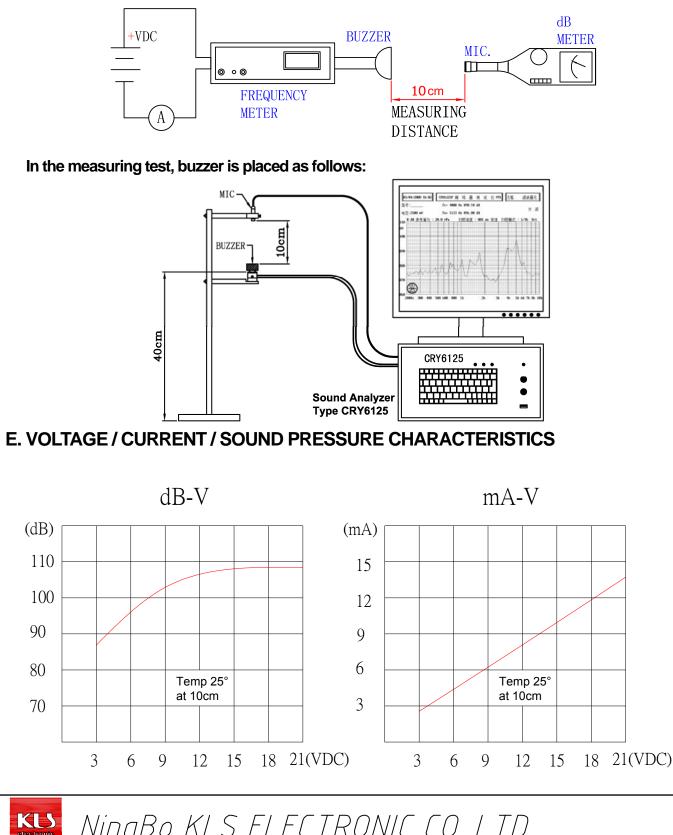
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D.TESTING METHOD Standard Measurement conditions

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



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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	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		
		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.		
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 ± 1 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		
	一般测试条件 :	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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