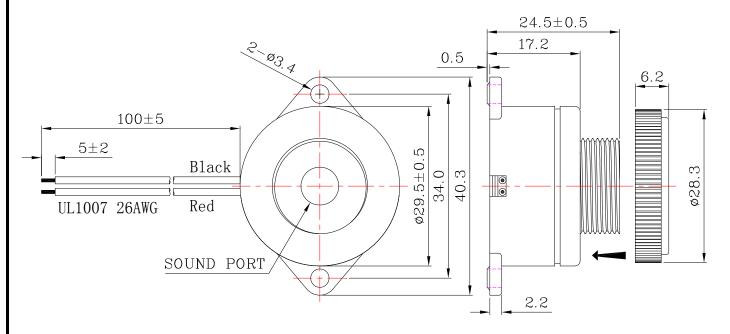
A. SCOPE

This specification applies Internally driven piezo buzzer, with wire. L-KLS3-LPB-30*25

B. SPECIFICATION

No.	ltem	Unit	Specification	Condition
1	Oscillation Frequency	KHz	3.5±0.5	square wave
2	Operating Voltage	VDC	3~24	
3	Rated Voltage	VDC	12	
4	Current Consumption	mA	MAX. 15	at Rated Voltage
5	Sound Pressure Level	dB	MIN. 90	at 10cm at Rated Voltage
6	Tone		Constant	
7	Operating Temperature	$^{\circ}\!\mathbb{C}$	-40~ +85	
8	Storage Temperature	$^{\circ}\!\mathbb{C}$	-40 ~ +105	
9	Dimension	mm	Ф30 х Н24.5	See appearance drawing
10	Weight (MAX)	gram	8.0	
11	Housing Material		ABS(Black)	
12	Leading Pin		Wire Type	See appearance drawing
13	Environmental Protection Regulation		RoHS	

C. APPEARANCE DRAWING



Tol : ± 0.5 Unit: mm



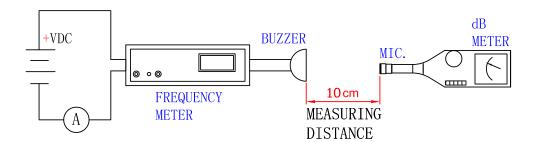
D.TESTING METHOD

Standard Measurement conditions

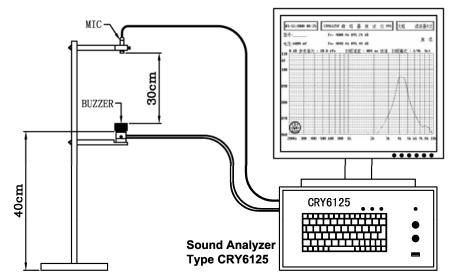
Temperature:25±2°C Humidity:45-65%

Acoustic Characteristics:

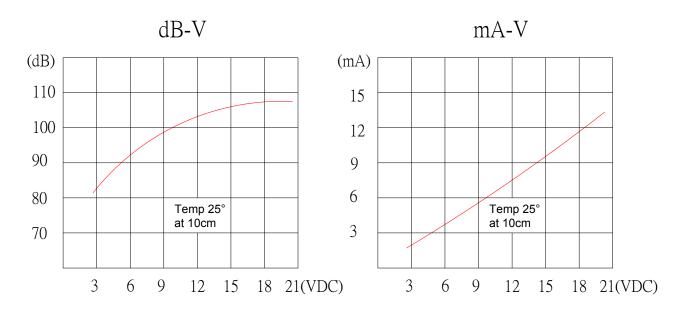
The oscillation frequency, current consumption and sound pressure are measured by the measuring instruments shown below



In the measuring test, buzzer is placed as follows:



E. VOLTAGE / CURRENT / SOUND PRESSURE CHARACTERISTICS





F. RELIABILITY TEST

ITEM

NO.

High Temperature Test (Storage)	After being placed in a chamber with 70±2°C for 96 hours and then being placed in normal condition for 2 hours. 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 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 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 -20°C -20°C -20°C -3hours Allowable variation of SPL after test: ±10dB.		
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.		
Vibration Test	After being applied vibration of amplitude of 1.5mm with 10 to 55 Hz 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±5°C for 3±1 seconds . 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 10 seconds. No visible damage and cutting off.		
	Test (Storage) Low Temperature Test (Storage) Humidity Test Temperature Cycle Test Drop Test Vibration Test Solderability Test Terminal Strength		

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				
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.				