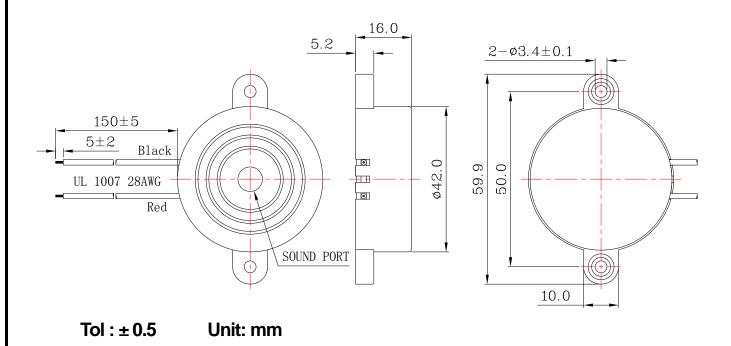
A. SCOPE

This specification applies Internally driven piezo buzzer, with wire. L-KLS3-LPB-42*16

B. SPECIFICATION No. **Specification** Condition Unit ltem 1 KHz 2.8±0.5 **Oscillation Frequency** 2 3~24 **Operating Voltage** VDC 3 VDC 12 Rated Voltage 4 **Current Consumption** mA MAX. 12 at Rated Voltage Sound Pressure Level **MIN. 90** 5 dB at 10cm at Rated Voltage 6 **Tone Nature** Constant °C -40~+85 7 **Operating Temperature** °C 8 Storage Temperature -40~+105 Φ42 x H16 9 Dimension See appearance drawing mm 10 Weight (MAX) 12 gram Housing Material 11 ABS(Black) 12 Leading Pin Wire type See appearance drawing Environmental RoHS 13 **Protection Regulation**

C. APPEARANCE DRAWING

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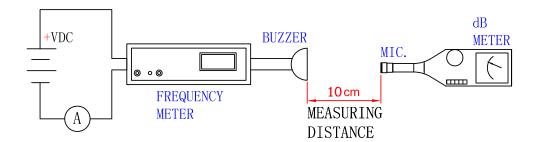
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D.TESTING METHOD Standard Measurement conditions

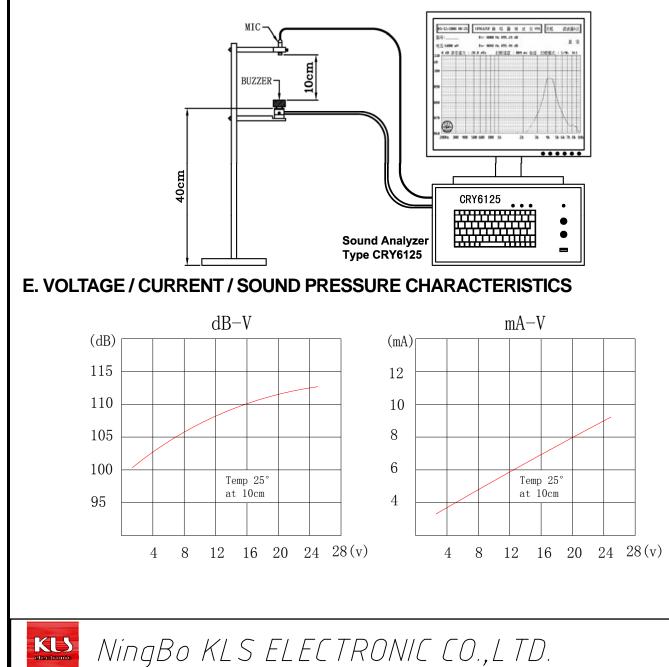
Temperature:25±2°C Humidity:45-65%

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:



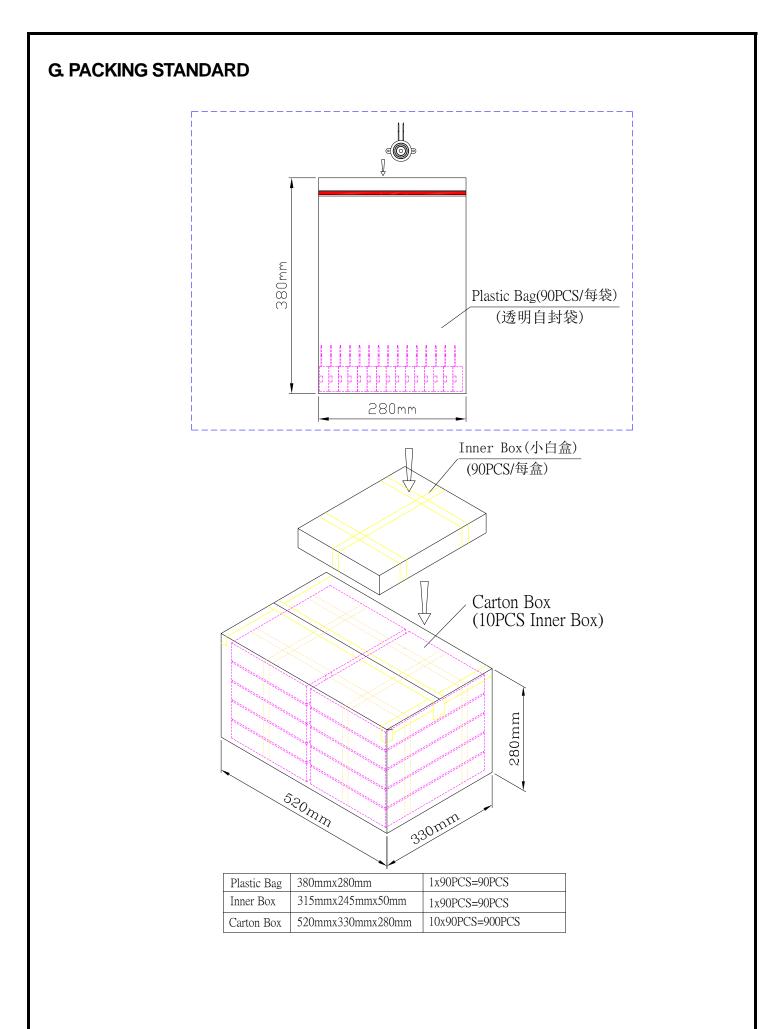
F. RELIABILITY TEST		
NO.	ITEM	TEST CONDITION AND REQUIREMENT
1	High Temperature Test (Storage)	After being placed in a chamber with 70±2°C for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: ±10dB.
2	Low Temperature Test (Storage)	After being Placed 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.
3	Humidity Test	After being Placed in a chamber with 90-95% R.H. at 40±2°C for 96hours and then being placed in normal condition for 2 hours.Allowable variation of SPL after test: ±10dB.
4	Temperature Cycle Test	The part shall be subjected to 5 cycles. One cycle shall be consist of : $+60^{\circ}C$ $+25^{\circ}C$ $+25^{\circ}C$ $+25^{\circ}C$ $-20^{\circ}C$ $0.5hr$ 0.5
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.
6	Vibration Test	After being applied vibration of amplitude of 1.5mm with 10 to 55 Hzband of vibration frequency to each of 3 perpendicular directions for2 hours .Allowable variation of SPL after test: ±10dB.
7	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).
8	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 CONDITION.		
一般测试条件 : a) 温度		a) Temperature : +5 ~ +35 °C b) Humidity : 45-85% c) Pressure : 860-1060mbar a) 温度 : +5 ~ +35 °C b) 湿度 : 45-85% c) 气压 : 860-1060mbar a) Temperature : +25 ± 2 °C b) Humidity : 60-70% c) Pressure : 860-1060mbar

Judgment Test Condition

ent 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

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