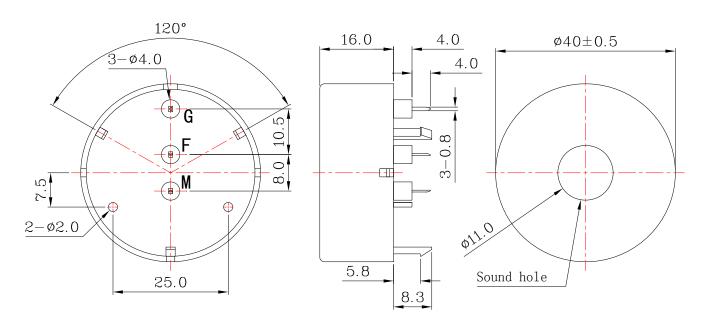
A. SCOPE

This specification applies Internally driven piezo buzzer, L-KLS3-PB-40*16

B. SPECIFICATION

No.	ltem	Unit	Specification	Condition
1	Oscillation Frequency	KHz	3.4±0.5	
2	Operating Voltage	VDC	3 ~30	
3	Rated Voltage	VDC	24	
4	Current Consumption	mA	MAX. 35	at 24V
5	Sound Pressure Level	dB	MIN. 106	at 30cm at Rated Voltage
6	Tone Nature		Single	
7	Operating Temperature	$^{\circ}\!\mathbb{C}$	-20~ +60	
8	Storage Temperature	$^{\circ}\!\mathbb{C}$	-30 ~ +70	
9	Dimension	mm	Ф40 x H16	See appearance drawing
10	Weight (MAX)	gram	12	
11	Housing Material		ABS(Black)	
12	Leading Pin		Tin Plating (Sn)	See appearance drawing
13	Environmental Protection Regulation		RoHS	

C. APPEARANCE DRAWING



Tol : ± 0.5 Unit: mm



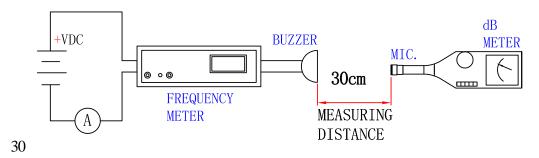
D.TESTING METHOD

Standard Measurement conditions

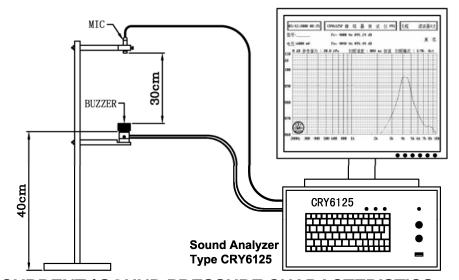
Temperature:25±2°C Humidity:45-65%

Acoustic Characteristics:

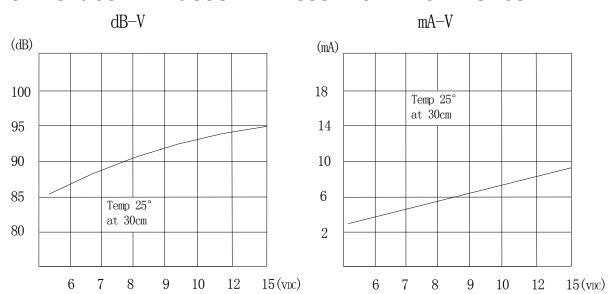
The oscillation frequency, current consumption and sound pressure are measured by the measuring instruments shown below



In the measuring test, buzzer is placed as follows:



E. VOLTAGE / CURRENT / SOUND PRESSURE CHARACTERISTICS





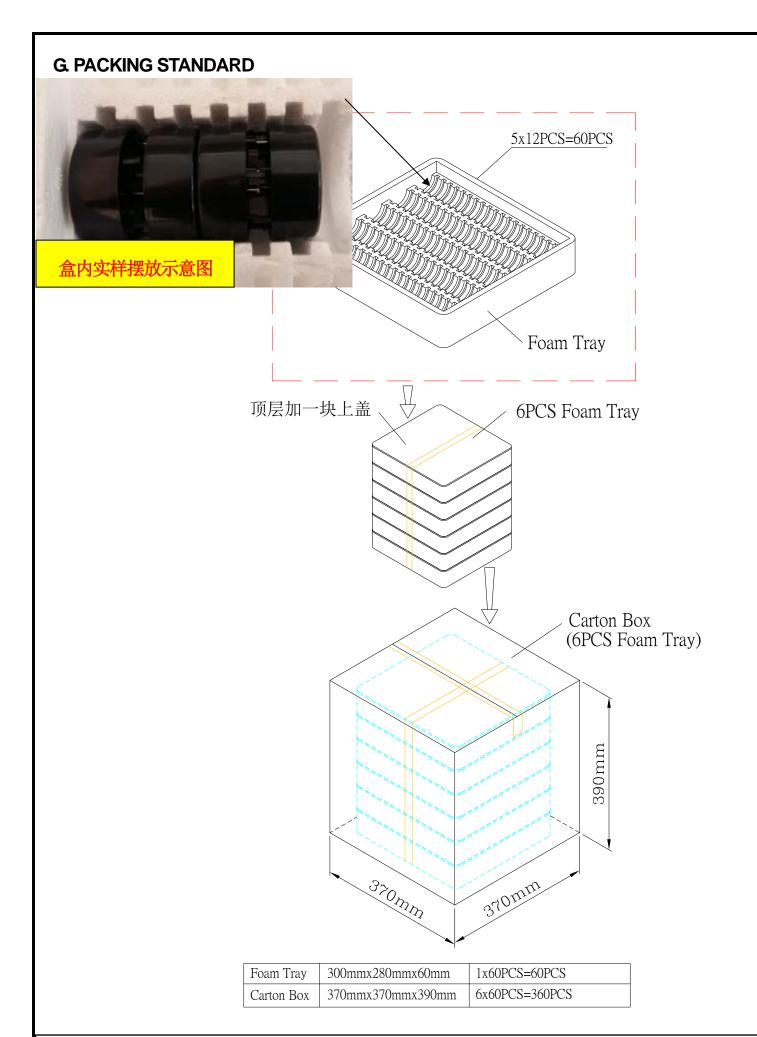
F. RELIABILITY TEST

NO.	ITEM	TEST CONDITION AND REQUIREMENT		
	High Temperature Test (Storage)	After being placed in a chamber with 70±2°C for 96 hours and then		
1		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		
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.		
3		Allowable variation of SPL after test: ±10dB.		
	Temperature Cycle Test	The part shall be subjected to 5 cycles. One cycle shall be consist of:		
		The part shall be subjected to a cycles. One cycle shall be consist of		
		+60°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.		
	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 1.5mmwith 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	Lead terminals are immersed in rosin for 5 seconds and then		
7		immersed in solder bath of +300±5°C for 3±1 seconds.		
	Test	90% min. lead terminals shall be wet with solder		
		(Except the edge of terminals).		
8	Terminal Strength	The force of 9.8N(1.0kg) is applied to each terminal in axial direction for 10 seconds.		
0	Pulling Test	No visible damage and cutting off.		
	ANDITION	140 VISIOIC GATTAGE AND CHANTE		

TEST CONDITION.

Standard Test Condition a) Temperature : $+5 \sim +35^{\circ}$ C b) Humidity : 45-85%c) Pressure: 860-1060mbar a) 温度:+5~+35℃ b) 湿度:45-85% 一般测试条件 : Judgment Test Condition : 一般测试条件 c) 气压: 860-1060mbar a) Temperature: +25 ± 2°C 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







H. Drive Circuit

