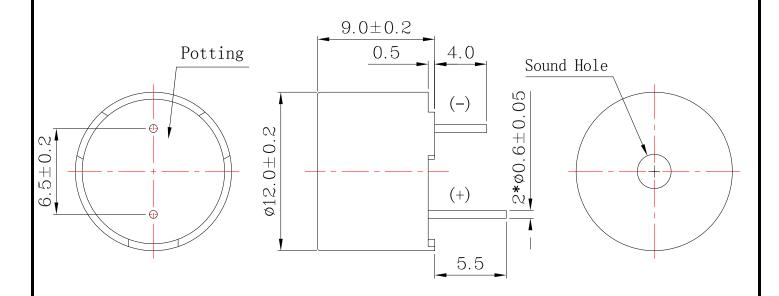
A. SCOPE

This specification applies Externally driven magnetic buzzers, L-KLS3-MT-12*09

B. SPECIFICATION

No.	ltem	Unit	Specification	Condition
1	Oscillation Frequency	Hz	2400	Vo-p=1/2duty , square wave
2	Operating Voltage	Vo-p	3~7	
3	Rated Voltage	Vo-p	5	
4	Current Consumption	mA	MAX.40	at Rated Voltage
5	Sound Pressure Level	dB	MIN. 85	at 10cm at Rated Voltage
6	Coil Resistance	Ω	40±5	
7	Operating Temperature	$^{\circ}\!\mathbb{C}$	-40 ~ +85	
8	Storage Temperature	$^{\circ}$ C	- 4 0 ~ +105	
9	Dimension	mm	Ф12.0 х Н9.0	See appearance drawing
10	Weight (MAX)	gram	2.0	
11	Housing Material		PPO(Black)	
12	Leading Pin		Tin Plated Brass(Sn)	See appearance drawing
13	Environmental Protection Regulation		RoHS	

C. APPEARANCE DRAWING



Tol : ± 0.5 Unit: mm



NingBo KLS ELECTRONIC CO.,LTD.

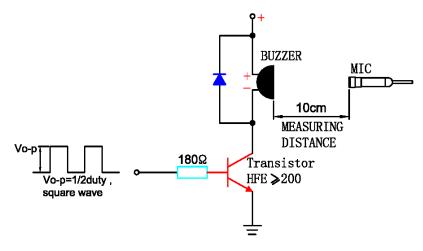
D.TESTING METHOD

Standard Measurement conditions

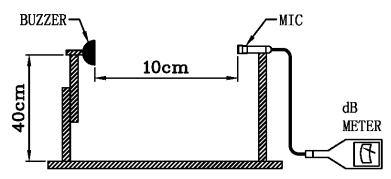
Temperature:25±2°C Humidity:45-65%

Acoustic Characteristics:

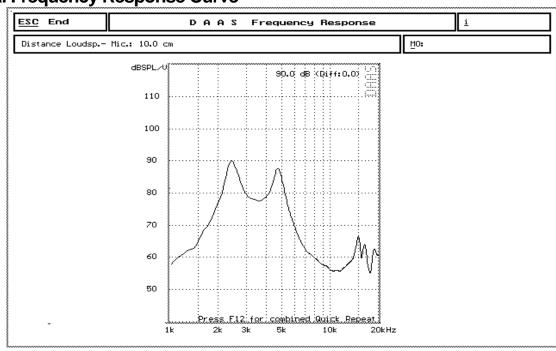
The oscillation frequency, current consumption and sound pressure are measured by the measuring instruments shown below(Recommend Driving Circuit)



In the measuring test, buzzer is placed as follows:



E. Typical Frequency Response Curve





F. RELIABILITY TEST

ITEM

NO.

		TEST SONDITIONAND NEGOTICINETY		
1	High Temperature Test (Storage)	After being placed in a chamber with 80±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 96 hours 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: +70°C +25°C +25°C -20°C -20°C		
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 Hz band of vibration frequency to each of 3 perpendicular directions for 2 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	NULLUN			

TEST CONDITION AND REQUIREMENT

TEST CONDITION.

 Standard Test Condition
 : a) Temperature: +5 ~ +35 ℃
 b) Humidity: 45-85%
 c) Pressure: 860-1060mbar

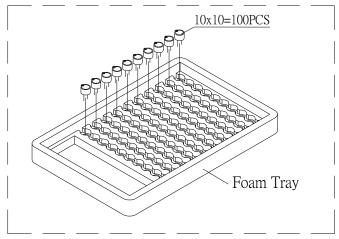
 一般测试条件
 : a) 温度: +5 ~ +35 ℃
 b) 湿度: 45-85%
 c) 气压: 860-1060mbar

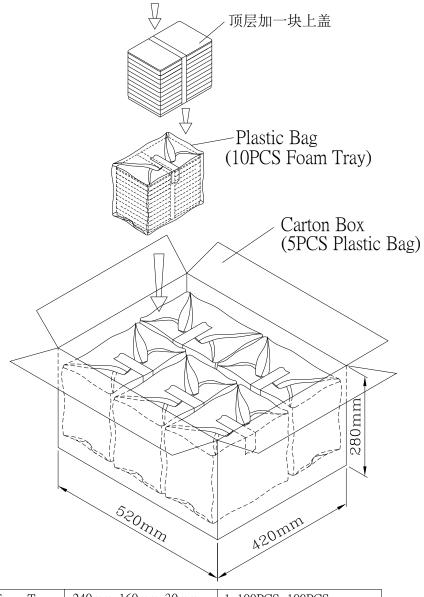
 Judgment Test Condition
 : a) Temperature: +25 ± 2 ℃
 b) Humidity: 60-70%
 c) Pressure: 860-1060mbar

 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





Foam Tray	240mmx160mmx30mm	1x100PCS=100PCS
Plastic Bag		10x100PCS=1000PCS
Carton Box	520mmx420mmx280mm	5x1000PCS=5,000PCS

