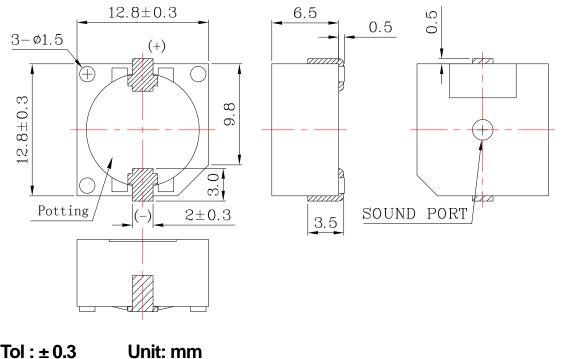
A. SCOPE

This specification applies SMD magnetic buzzer, Internal-Driven type, L-KLS3-SMT-13*07A

B. SPECIFICATION

No.	ltem	Unit	Specification	Condition
1	Oscillation Frequency	KHz	2.4 ± 0.4	
2	Operating Voltage	VDC	4 ~7	
3	Rated Voltage	VDC	5	
4	Current Consumption	mA	MAX. 30	at Rated Voltage
5	Sound Pressure Level	dB	MIN. 85	at 10cm at Rated Voltage
6	Tone/Pulse Rate		Constant	
7	Operating Temperature	°C	-40 ~ +85	
8	Storage Temperature	°C	-40 ~ +105	
9	Dimension	mm	12.8 x 12.8 x H7	See appearance drawing
10	Weight (MAX)	gram	2.0	
11	Housing Material		PPS(Gray)	
12	Leading Pin		Tin Plated Brass(Sn)	See appearance drawing
13	Environmental Protection Regulation		RoHS	

C. APPEARANCE DRAWING



Tol : ± 0.3

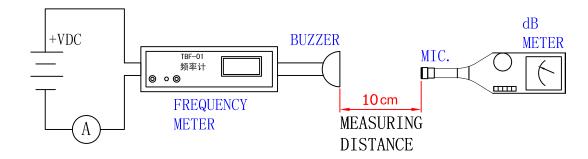
KLS

D.TESTING METHOD Standard Measurement conditions

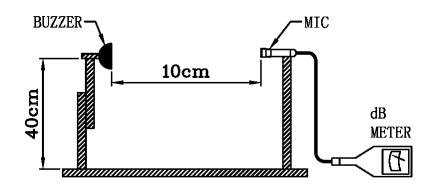
Temperature:25±2°C Humidity:45-65%

Acoustic Characteristics:

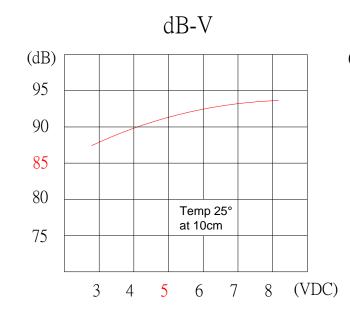
The oscillation frequency, current consumption and sound pressure are measured by the measuring instruments shown below



In the measuring test, buzzer is placed as follows:

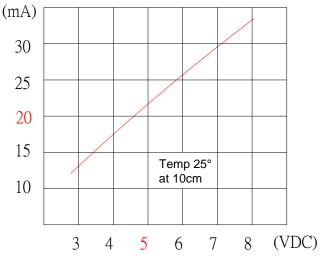


E. Typical Frequency Response Curve



KLS





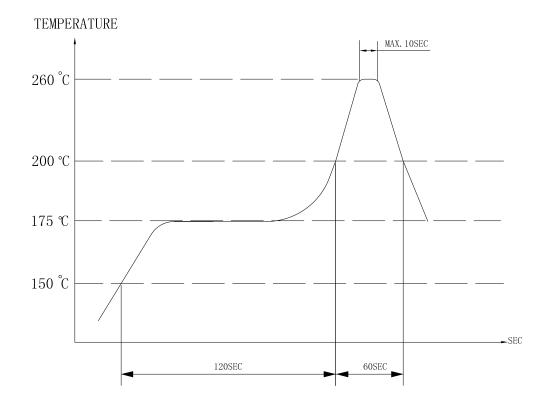
F. Soldering Condition

(1)Recommendable reflow soldering condition is as follows

(Reflow soldering is twice)

Note: It is requested that reflow soldering should be executed

after heat of product goes down to normal.



Heat resistant line

(Used when heat resistant reliability test is performed)

(2)Manual soldering

Manual soldering temperature 350 °C within 5 sec.



G. RELIABILITY TEST

NO.	ITEM	TEST CONDITION AND REQUIREMENT		
1	High Temperature	After being placed in a chamber with 80±2°C for 96 hours and then		
		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		
		$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		
		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 1.5mm with 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 $+300\pm5^{\circ}$ C for 3 ± 1 seconds.		
	Test	90% min. lead terminals shall be wet with solder		
		(Except the edge of terminals).		
0	Terminal Strength Pulling Test	The force of 9.8N(1.0kg) is applied to each terminal in axial direction for		
8		10 seconds.		
TE07 04		No visible damage and cutting off.		
	Test Condition : 一般测试条件 :	a) Temperature : +5 ~ +35℃ b) Humidity : 45-85% c) Pressure : 860-1060mbar a) 温度 : +5 ~ +35℃ b) 湿度 : 45-85% c) 气压 : 860-1060mbar		
	加测试余件 It Test Condition :	a) 温度 : +5 ~ +35 ℃ b) 湿度 : 45-85% c) 气压 : 860-1060mbar a) Temperature : +25 ± 2 ℃ b) Humidity : 60-70% c) Pressure : 860-1060mbar		
Judginen		a) Temperature. $\pm 2.5 \pm 2.5$ b) Furthermally $.00-70.6$ C) Flessure $.000-1000$ [IIDal		

 udgment 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



