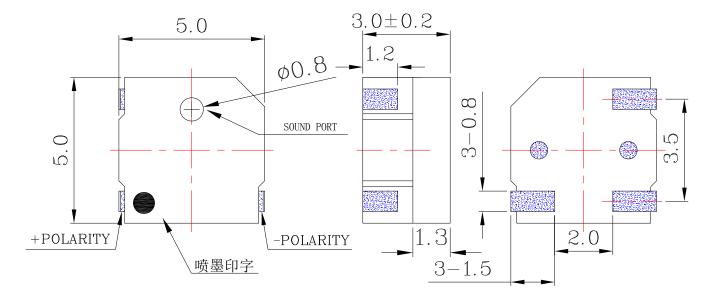
## A. SCOPE

This specification applies SMD magnetic buzzer, Passive drive type, L-KLS3-SMT-05\*03

### **B. SPECIFICATION**

No.	ltem	Unit	Specification	Condition
1	Oscillation Frequency	Hz	4000	Vo-p=1/2duty , square wave
2	Operating Voltage	Vo-p	2~4	
3	Rated Voltage	Vo-p	3	
4	Current Consumption	mA	MAX.110	at Rated Voltage
5	Sound Pressure Level	dB	MIN. 75	at 10cm at Rated Voltage
6	Coil Resistance	Ω	12±3	
7	Operating Temperature	°C	-40 ~ +85	
8	Storage Temperature	°C	-40 ~ +105	
9	Dimension	mm	5.0 x 5.0 x H3.0	See appearance drawing
10	Weight (MAX)	gram	0.6	
11	Housing Material		LCP(Black)	
12	Leading Pin		Tin Plated Brass(Sn)	See appearance drawing
13	Environmental Protection Regulation		RoHS	

# C. APPEARANCE DRAWING





Unit: mm

KLS electronic

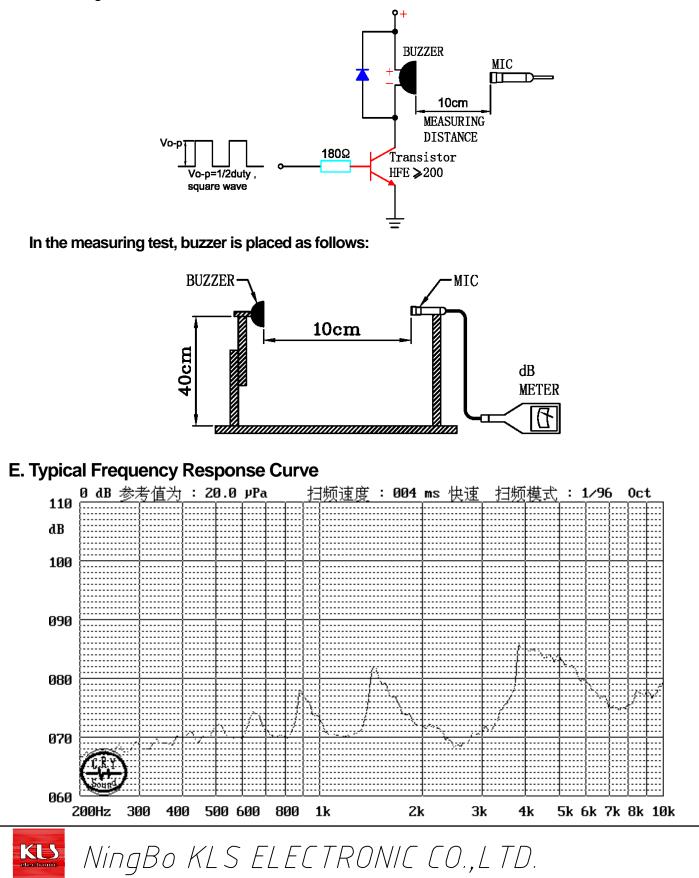
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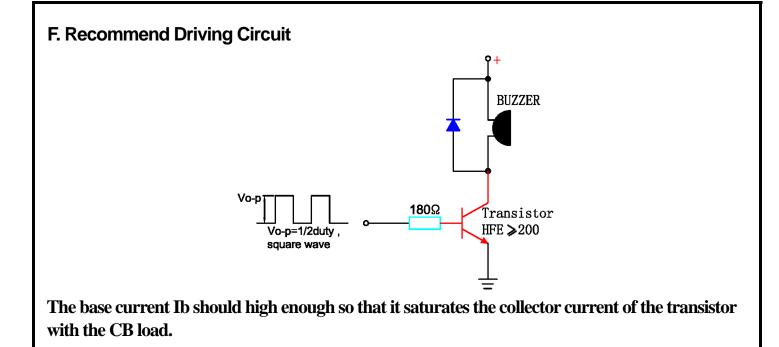
#### D.TESTING METHOD Standard Measurement conditions

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

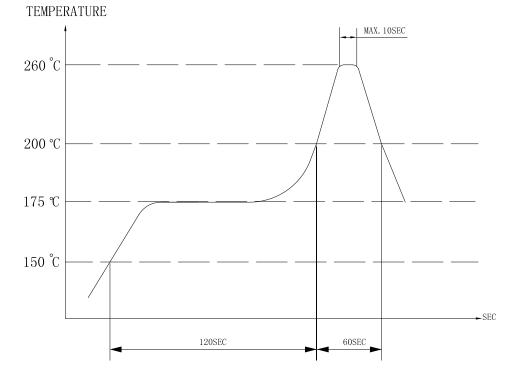




### **G. Soldering Condition**

(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.



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### **H. RELIABILITY TEST**

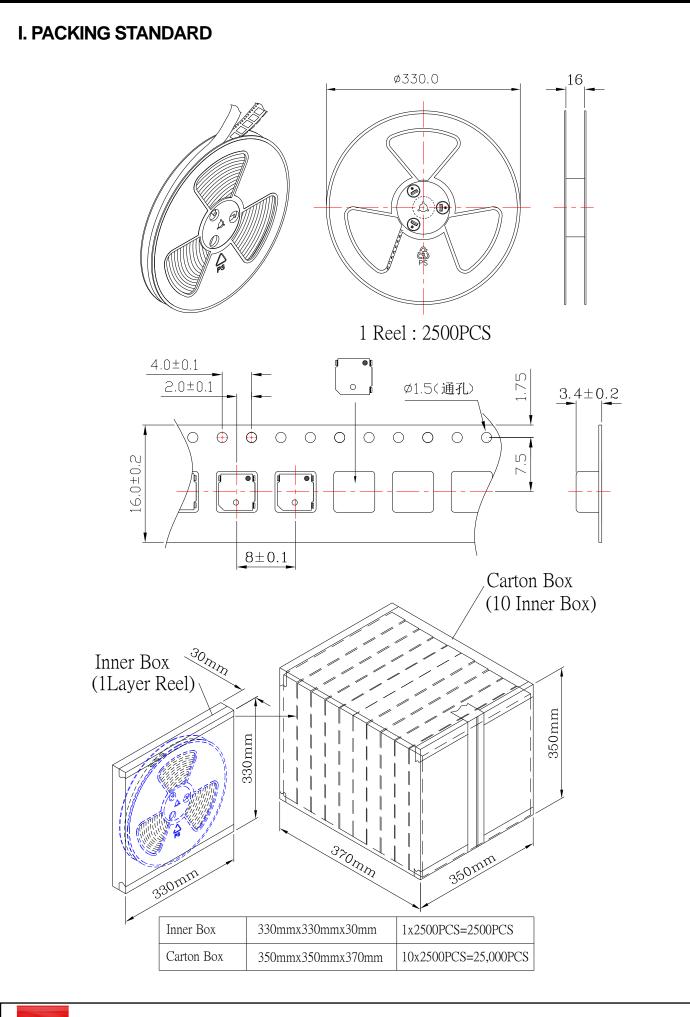
NO.	ITEM	TEST CONDITION AND REQUIREMENT		
	High Temperature Test (Storage)	After being placed in a chamber with 85±2°C for 96 hours and then		
1		being placed in normal condition for 2 hours.		
		Allowable variation of SPL after test: ±10dB.		
	Low Temperature Test (Storage)	After being Placed in a chamber with -40±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		
		+25°C +25°C		
4				
		- 30°C		
		0.5hr 0.5 0.25 0.5 0.5 0.5 0.25		
		3hours		
		Allowable variation of SPL after test: ±10dB.		
5	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.		
		After being applied vibration of amplitude of 1.5mm with 10 to 55 Hz		
	Vibration Test	band of vibration frequency to each of 3 perpendicular directions for		
6		2 hours.		
		Allowable variation of SPL after test: ±10dB.		
	Solderability Test	Lead terminals are immersed in rosin for 5 seconds and then		
7		immersed in solder bath of $+300\pm5^{\circ}$ C for $3\pm1$ seconds.		
7		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		
8		10 seconds.		
	i uning iest	No visible damage and cutting off.		
TEST CO	ONDITION.			
	Test Condition :	a) Temperature : +5 ~ +35 $^\circ C$ 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 : $+25 \pm 2^{\circ}$ C b) Humidity : 60-70% c) Pressure : 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



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