

# SANCO ELECTRONICS CO., LTD.

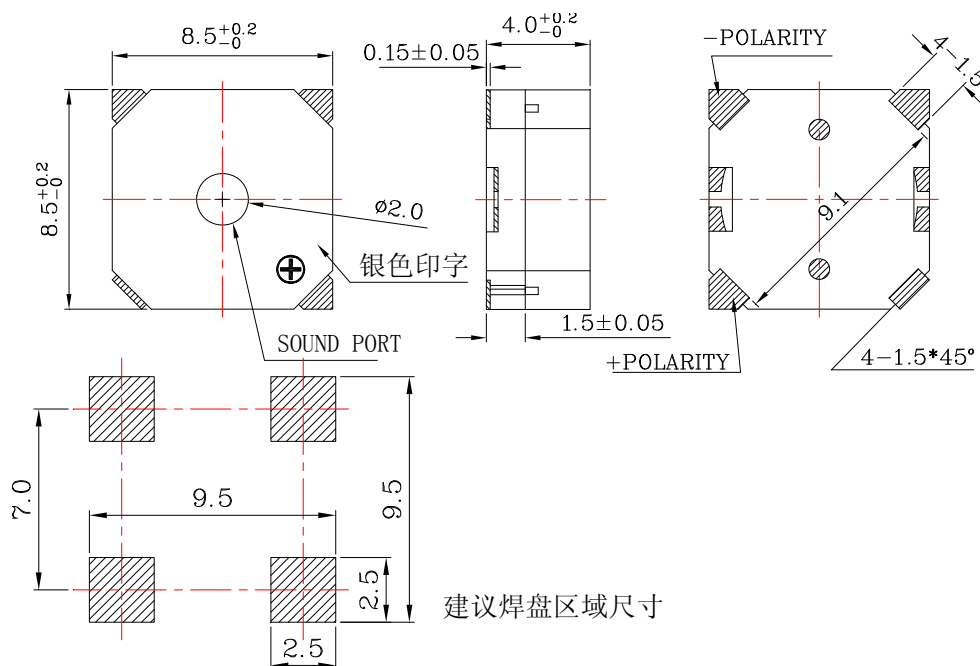
## A. SCOPE

This specification applies magnetic buzzer, **SMT- 8540A-03627**

## B. SPECIFICATION

No.	Item	Unit	Specification	Condition
1	Oscillation Frequency	Hz	2700	Vo-p=1/2duty , square wave
2	Operating Voltage	Vo-p	2.5-4.5	
3	Rated Voltage	Vo-p	3.6	
4	Current Consumption	mA	MAX. 100	at Rated Voltage
5	Sound Pressure Level	dB	MIN. 85	at 10cm at Rated Voltage
6	Coil Resistance	$\Omega$	16 $\pm$ 3	
7	Operating Temperature	$^{\circ}\text{C}$	-20 ~ +70	
8	Storage Temperature	$^{\circ}\text{C}$	-30 ~ +80	
9	Dimension	mm	8.5 x 8.5 x H4.0	See appearance drawing
10	Weight (MAX)	gram	0.8	
11	Housing Material		LCP( Black )	
12	Leading Pin		Tin Plated Brass(Sn)	See appearance drawing
13	Environmental Protection Regulation		RoHS	

## C. APPEARANCE DRAWING



**Tol :  $\pm 0.5$**

**Unit: mm**

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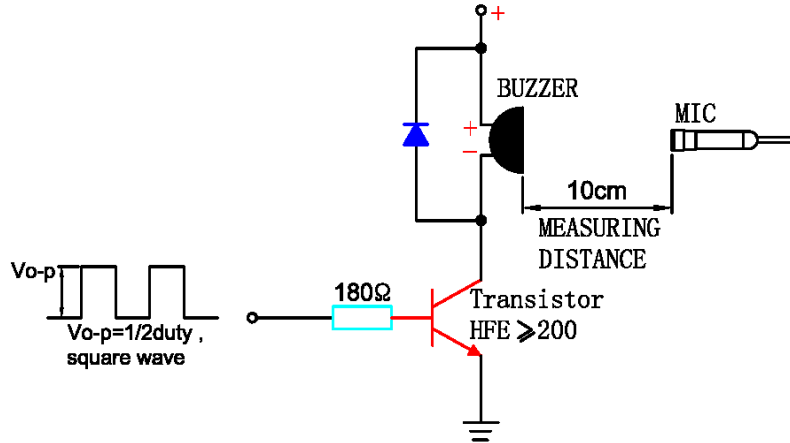
## D. TESTING METHOD

### Standard Measurement conditions

Temperature:  $25 \pm 2^\circ\text{C}$  Humidity: 45-65%

### Acoustic Characteristics:

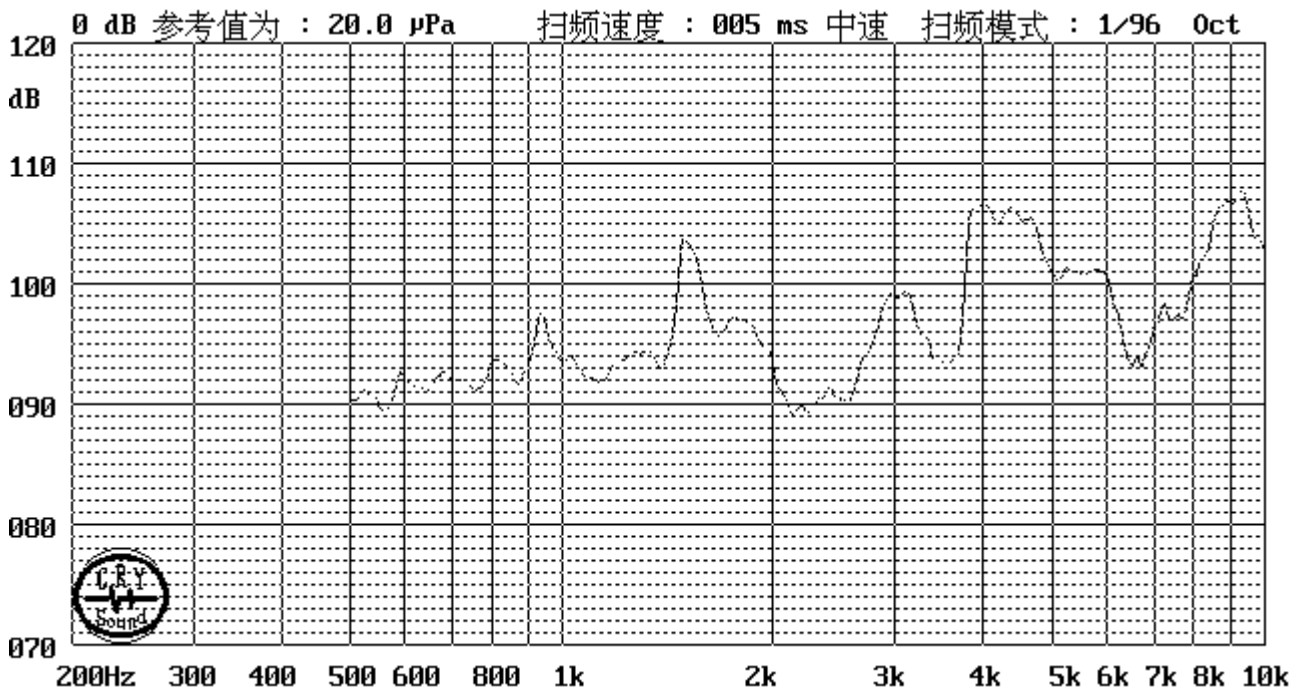
The oscillation frequency, current consumption and sound pressure are measured by the measuring instruments shown below



In the measuring test, buzzer is placed as follows:



## E. Typical Frequency Response Curve



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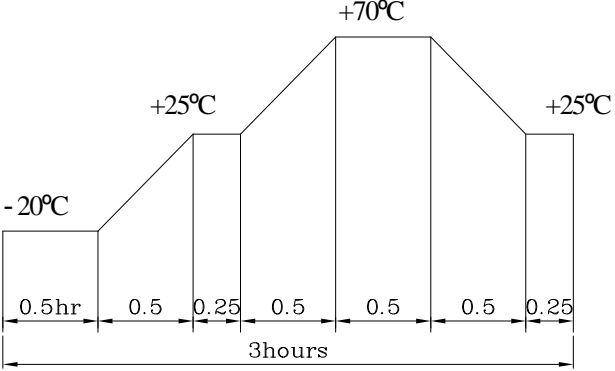
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## G. RELIABILITY TEST

NO.	ITEM	TEST CONDITION AND REQUIREMENT
1	High Temperature Test (Storage)	After being placed in a chamber with $80\pm 2^{\circ}\text{C}$ for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: $\pm 10\text{dB}$ .
2	Low Temperature Test (Storage)	After being Placed in a chamber with $-30\pm 2^{\circ}\text{C}$ for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: $\pm 10\text{dB}$ .
3	Humidity Test	After being Placed in a chamber with 90-95% R.H. at $40\pm 2^{\circ}\text{C}$ for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: $\pm 10\text{dB}$ .
4	Temperature Cycle Test	The part shall be subjected to 5 cycles. One cycle shall be consist of :  <p>The diagram shows a temperature cycle profile over 3 hours. It starts at <math>-20^{\circ}\text{C}</math> for 0.5 hours, then ramps up to <math>+25^{\circ}\text{C}</math> in 0.5 hours, holds at <math>+25^{\circ}\text{C}</math> for 0.25 hours, ramps up to <math>+70^{\circ}\text{C}</math> in 0.5 hours, holds at <math>+70^{\circ}\text{C}</math> for 0.5 hours, ramps down to <math>+25^{\circ}\text{C}</math> in 0.5 hours, holds at <math>+25^{\circ}\text{C}</math> for 0.25 hours, and finally ramps down to <math>-20^{\circ}\text{C}</math> in 0.25 hours. The total duration is 3 hours.</p> Allowable variation of SPL after test: $\pm 10\text{dB}$ .
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: $\pm 10\text{dB}$ .
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: $\pm 10\text{dB}$ .
7	Solderability Test	Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of $+300\pm 5^{\circ}\text{C}$ for $3\pm 1$ 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.
9	Operating life test	Continuous life test The part shall be subjected to 72 hours at $+70^{\circ}\text{C}$ with 4.4V,4000Hz applied. Intermittent life test A duty cycle of 1 minute on,1 minutes off,a minimum of 10000 times at room temp.( $+25\pm 10^{\circ}\text{C}$ )with 4.4V,4000Hz applied. After the test the part shall meet specifications with-out any degradation in appearance and performance except SPL.after 4 hours at $+25^{\circ}\text{C}$ . Allowable variation of SPL after test: $\pm 10\text{dB}$ .

### TEST CONDITION.

Standard Test Condition	:	a) Temperature : $+5 \sim +35^{\circ}\text{C}$	b) Humidity : 45-85%	c) Pressure : 860-1060mbar
一般测试条件	:	a) 温度 : $+5 \sim +35^{\circ}\text{C}$	b) 湿度 : 45-85%	c) 气压 : 860-1060mbar
Judgment Test Condition	:	a) Temperature : $+25 \pm 2^{\circ}\text{C}$	b) Humidity : 60-70%	c) Pressure : 860-1060mbar
争议时测试条件	:	a) 温度 : $+25 \pm 2^{\circ}\text{C}$	b) 湿度 : 60-70%	c) 气压 : 860-1060mbar

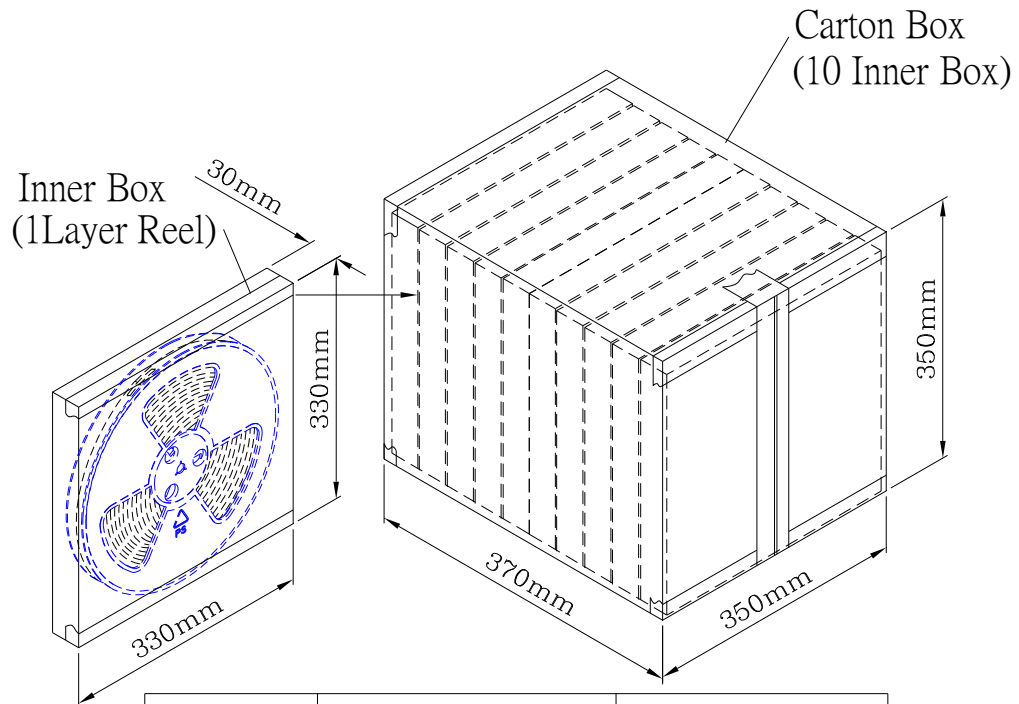
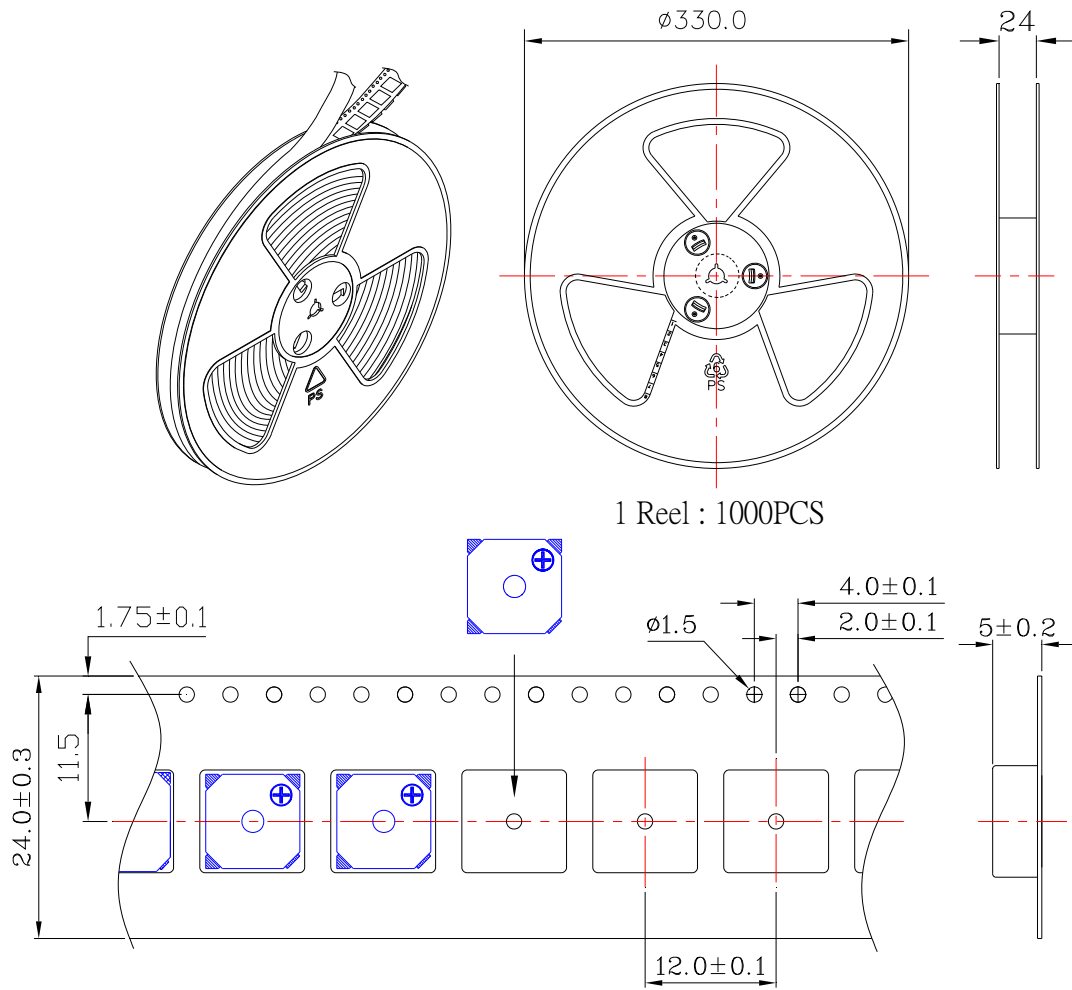
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## H. PACKING STANDARD



Inner Box	330mmx330mmx30mm	1x1000PCS=1000PCS
Carton Box	350mmx350mmx370mm	10x1000PCS=10,000PCS

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