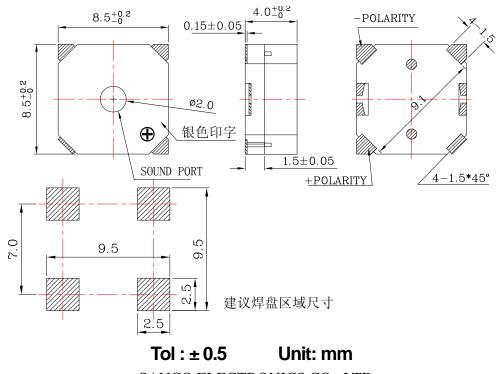
A. SCOPE

This specification applies magnetic buzzer, SMT- 8540A-04440

B. SPECIFICATION

No.	ltem	Unit	Specification	Condition
1	Oscillation Frequency	Hz	4000	Vo-p=1/2duty , square wave
2	Operating Voltage	Vo-p	3.6-5	
3	Rated Voltage	Vo-p	4.4	
4	Current Consumption	mA	MAX. 140	at Rated Voltage
5	Sound Pressure Level	dB	MIN. 100	at 10cm at Rated Voltage
6	Coil Resistance	Ω	12±3	
7	Operating Temperature	°C	-20~+70	
8	Storage Temperature	°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



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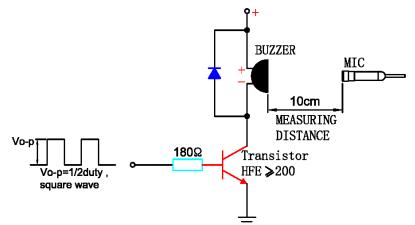
D.TESTING METHOD

Standard Measurement conditions

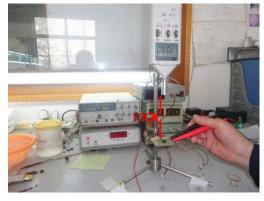
Temperature:25±2°C Humidity:45-65%

Acoustic Characteristics:

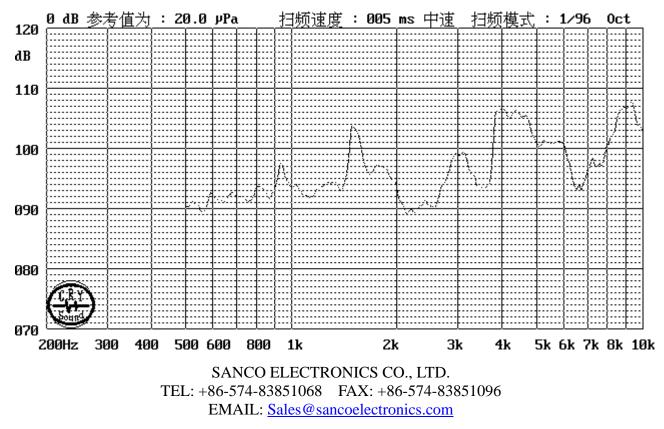
The oscillation frequency, current consumption and sound pressure are measured by the measuring instruments shown below



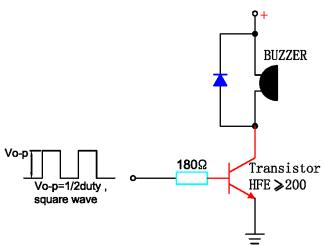
In the measuring test, buzzer is placed as follows:



E. Typical Frequency Response Curve



F. Recommend Driving Circuit

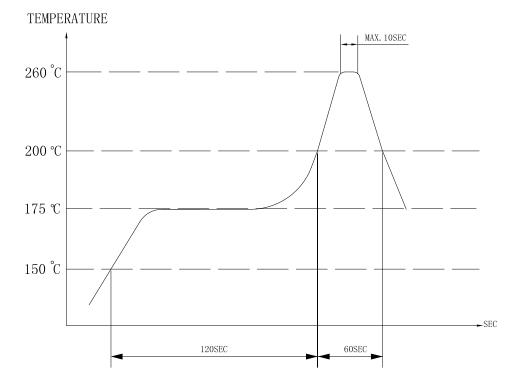


The base current Ib should high enough so that it saturates the collector current of the transistor with the CB load.

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.

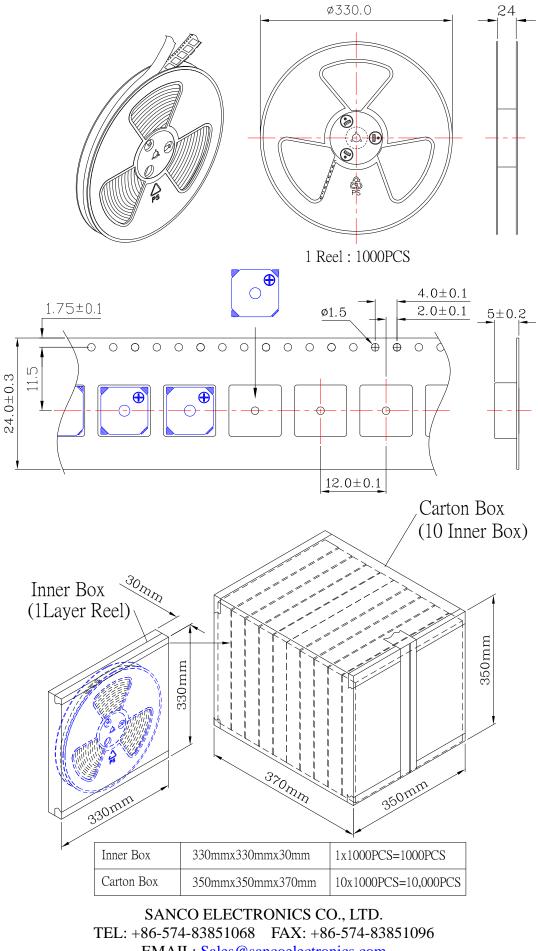
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H. RELIABILITY TEST

NO.			
	ITEM	TEST CONDITION AND REQUIREMENT	
	High Temperature Test (Storage)	After being placed in a chamber with 80±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.	
	Temperature Cycle Test	Allowable variation of SPL after test: ±10dB.	
		The part shall be subjected to 5 cycles. One cycle shall be consist of :	
		+70°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 1.5mm with 10 to 55 Hz	
C		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 ± 1 seconds.	
/		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.	
		No visible damage and cutting off.	
	Operating life test	Continuous life test	
		The part shall be subjected to 72 hours at +70°C with 4.4V,4000Hz applied.	
		Intermittent life test	
9		A duty cycle of 1 minute on,1 minutes off,a minimum of 10000 times at room	
		temp.(+25±10°C) with 4.4V,4000Hz applied.	
		After the test the part shall meet specifications with-out any degradation in $\frac{1}{25}$ %	
		appearance and performance except SPL.after 4 hours at $+25 ^{\circ}$ C. Allowable variation of SPL after test: ± 10 dB.	
TESTOC	DNDITION.		
		a) Temperature \cdot +5 ~ +35° ()) Humidity \cdot 45 95% ()) Produce \cdot 960 4060 mbor	
Stondard.		a) Temperature : +5 ~ +35 °C b) Humidity : 45-85% c) Pressure : 860-1060mbar	
Standard	船汕古条件	a) 温度 $+5 \sim +35$ () b) 湿度 $\cdot 45 - 85\%$ c) 写 L $\cdot 860 - 1060$ mbar	
	一般测试条件 : t 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	
Judgment	一般测试条件 : t Test Condition : 印议时测试条件 :	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 a) 温度:+25±2℃ b) 湿度:60-70% c) 气压:860-1060mbar	
Judgment	t Test Condition :	a) Temperature : $+25 \pm 2^{\circ}$ C b) Humidity : 60-70% c) Pressure : 860-1060mbar	

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I. PACKING STANDARD



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