SPECIFICATION FOR APPROVAL承认书

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- Description
- Magnetic Transducer
- Vender's Part No.
- Customer's. Part No.
- Serial No.
- Version No.

- _____ SMT-4020B-03040
 - SAN-2057
 - 1.1

CUSTOMER'S APPROVED SIGNATURE			
	MER'S APPROVED SIG		

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Approved By	Checked By	Made By
		James Li 2012-9-21

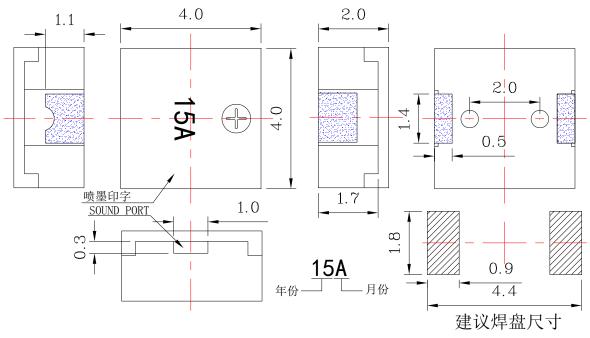
A. SCOPE

This specification applies magnetic buzzer, SMT-4020B-03040

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. 90	at Rated Voltage
5	Sound Pressure Level	dB	MIN. 70	at 10cm at Rated Voltage
6	Coil Resistance	Ω	17±3	
7	Operating Temperature	°C	-20~+70	
8	Storage Temperature	°C	-30 ~ +80	
9	Dimension	mm	4.0 x 4.0 x H2.0	See appearance drawing
10	Weight (MAX)	gram	0.1	
11	Housing Material		LCP(Black)	
12	Leading Pin		Tin Plated Brass(Sn)	See appearance drawing
13	Environmental Protection Regulation		RoHS	

C. APPEARANCE DRAWING







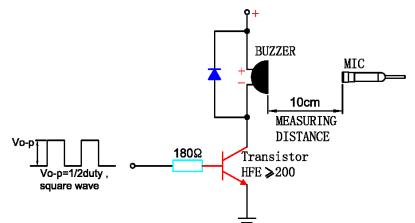
D.TESTING METHOD

Standard Measurement conditions

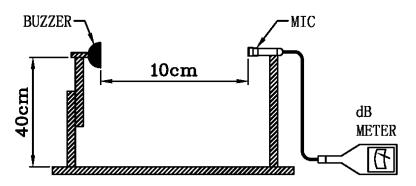
Temperature:25±2°C Humidity:45-65%

Acoustic Characteristics:

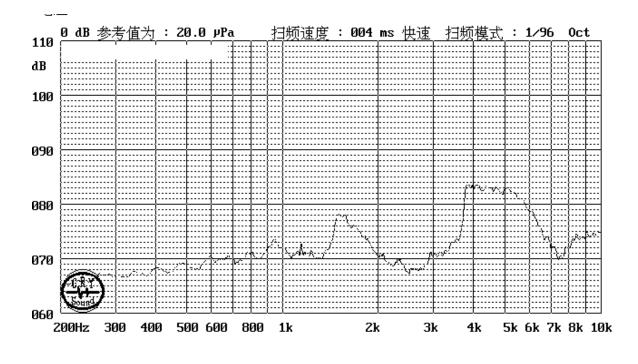
The oscillation frequency, current consumption and sound pressure are measured by the measuring instruments shown below



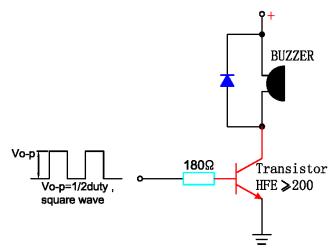
In the measuring test, buzzer is placed as follows:



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.

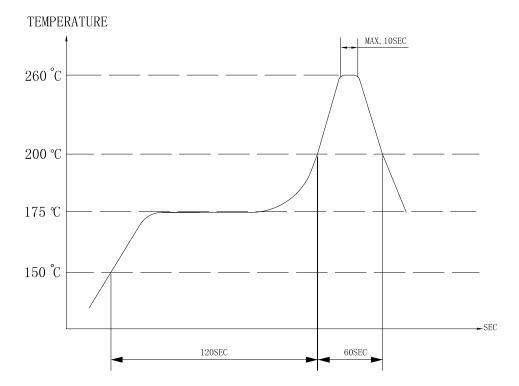
G. Soldering Condition

(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.

H. RELIABILITY TEST

NO.	ITEM	TEST CONDITION AND REQUIREMENT		
	High Temperature	After being placed in a chamber with 80±2°C for 96 hours and then		
1	Test (Storage)	being placed in normal condition for 2 hours.		
	Test (Storage)	Allowable variation of SPL after test: ±10dB.		
	Low Temperature	After being Placed in a chamber with -30±2°C for 96 hours and then		
2	Test (Storage)	being placed in normal condition for 2 hours.		
	1000 (0000080)	Allowable variation of SPL after test: ±10dB.		
-		After being Placed in a chamber with 90-95% R.H. at 40±2°C for 96		
3	Humidity Test	hours and then being placed in normal condition for 2 hours.		
		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	Temperature Cycle			
	Test	- 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 on a hard wood board of 4cm thick, any directions ,6 times, at the height of 75cm.		
5	Drop Test			
		Allowable variation of SPL after test: ±10dB.		
		After being applied vibration of amplitude of 1.5mm with 10 to 55 Hz		
6	Vibration Test	band of vibration frequency to each of 3 perpendicular directions for		
		2 hours . Allowable variation of SPL after test: ±10dB.		
	Soldershility	Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of $+300\pm5^{\circ}$ C for 3 ± 1 seconds.		
7	Solderability Test	90% min. lead terminals shall be wet with solder		
		(Except the edge of terminals).		
		The force of 9.8N(1.0kg) is applied to each terminal in axial direction for		
8 Terminai Suengui		10 seconds.		
0	Pulling Test	No visible damage and cutting off.		

Standard Test Condition	:	a) I emperature : $+5 \sim +35^{\circ}$ 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°C	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

I. PACKING STANDARD

