

Specification for Magnetic Transducer		Page	3/11
Model No. : SMT-8030B		Revision No.	1.1
		Drawing No.	KP3.840.858R

## 1. Scope

This product specification is applied to the magnetic transducer in alarm systems. Please contact us when using this product for any other applications than described in the above.

本规格书适用于电磁式声响器，通常它用在系统中做报警或提示的声响器用，如果将该产品用于其它领域，请与我们联系。

## 2. General

2.1 Out-Diameter : 8.0×8.0mm

外径: 8.0×8.0mm

2.2 Height : 3.0 mm

高度: 3.0 mm

2.3 Weight : 0.38g

重量: 0.38g

2.4 Operating Temperature range:

-40~+80°C without loss of function

工作温度: -40~+80°C

Store Temperature range:

-40~+85°C without loss of function

储藏温度: -40~+85°C

2.5 According to the No.7 of RoHS Exemptions, lead-based solder alloys containing 85 % by weight or more lead(Sn10Pb90)

根据"欧盟RoHS指令豁免条款"第7条规定,使用了铅含量超过85%的锡铅合金焊料(Sn10Pb90)

## 3. Electrical and Acoustic Characteristics.

Test condition : 15 ~ 35 °C , 25% ~ 85% RH, 860~1060 mbar

测试条件: 15~35 °C , 25~85%RH , 860~1060mbar

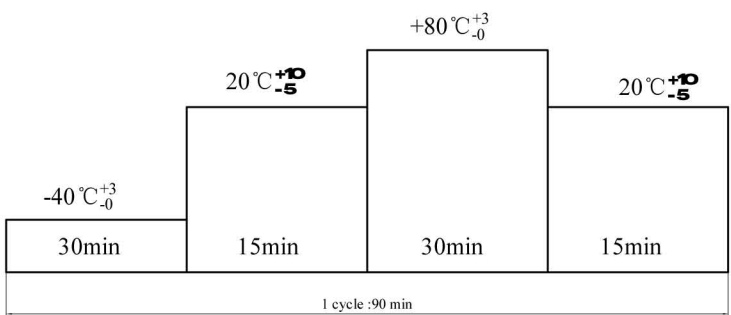
	Items 项目	Specification 规格
1	Rated Voltage 额定电压	3.6V
2	Operating Voltage 工作电压	2.5~4.5V
3	Max. Rated Current 额定电流	90mA /3.6V
4	Resonant Frequency 谐振频率	2670Hz
5	Min. Sound Pressure Level 额定声压	85dB/3.6V/10cm
6	Coil Resistance 直流阻抗	16±2.4 Ω
7	Case Material/Color 壳体材质/颜色	LCP6130/Black

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## 4. Reliability Test

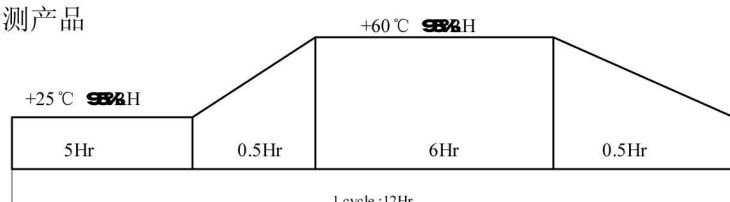
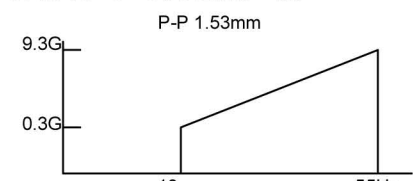
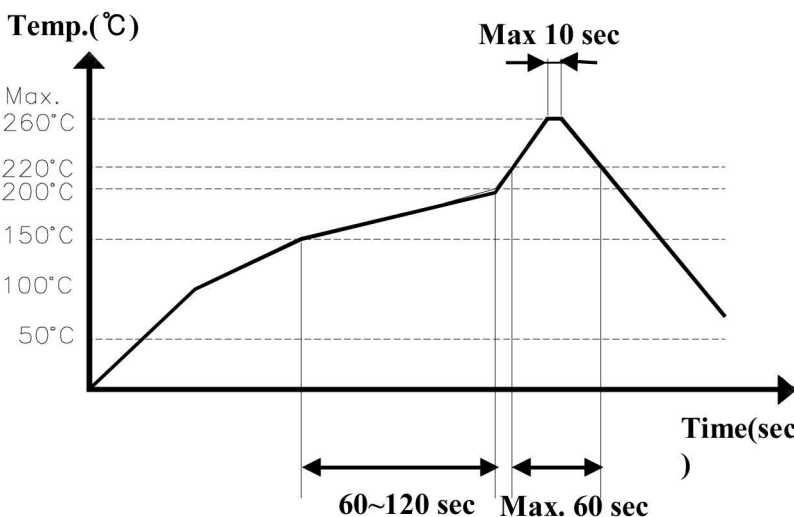
After test(1~7item), the transducer S.P.L. difference shall be within  $\pm 10\text{dB}$ , and the appearance not exist any change to be harmful to normal operation(e.g.cracks,rusts,damages and especially distortion).

在**1-7**项试验后，声响器的声压变化值在 $\pm 10\text{dB}$ 之内，外观无变化（例如：开裂、生锈、损伤、变形等现象）。

	Item	Specification
1	Heat Resisance 高温试验	Storage in $85^{\circ}\text{C}$ test box for 96 hours then expose to the room temperature for 2 hours 将产品置于 <del>85</del> $85^{\circ}\text{C}$ 试验箱中 <del>96</del> $96$ 小时，然后在常温下放置 <b>2</b> 小时后检测产品
2	Cold Resistance 低温试验	Storage in $-40$ test box for 96 hours then expose to the room temperature for 2 hours.. 将产品置于 <del>-40</del> $-40^{\circ}\text{C}$ 试验箱中 <del>96</del> $96$ 小时，然后在常温下放置 <b>2</b> 小时后检测产品
3	Life test in the room temp 寿命试验	Operate sound transducer continuously for 1000 hours with applying 3.6V,square wave, $\frac{1}{2}$ duty,2670HZ,using the test circuit as perattached drawing. 产品在额定的条件下连续工作 <del>1000</del> $1000$ 小时后检测产品
4	Temperature Cycle 温度循环试验	Make this test for 5 cycle without applying power ,then expose to the room temperature for 2 hous. 产品在不通电的条件下按以下要求循环 <b>5</b> 次然后在常温下放置 <b>2</b> 小时后检测产品 

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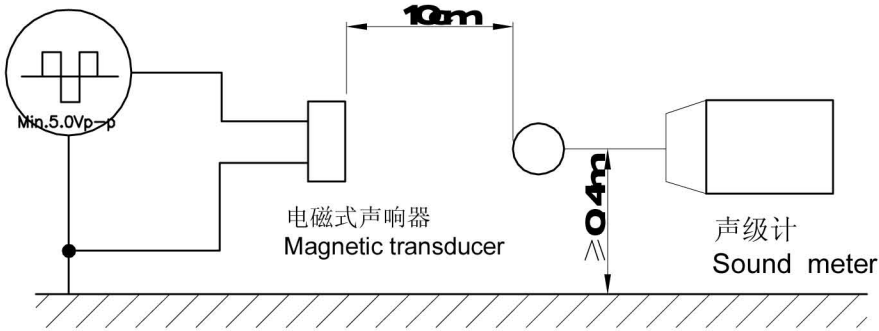
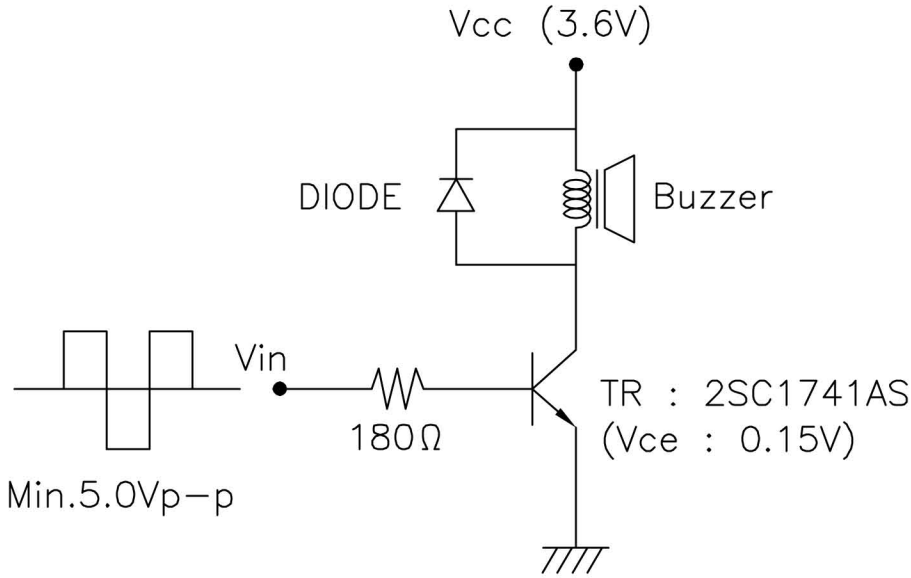
### 4. Reliability Test

	Item	Specification
5	Temp./Humidity Resistance 湿热试验	<p>Maki this test for 10 cycles without applying power, then expose to the room temperature for 2 hours. 产品在通电的情况下按要求循环<b>10</b>次，然后在常温下放置<b>2</b>小时后检测产品</p> 
6	Vibration test 振动试验	<p>Make this test for the directions of X,Y and Z. for 2 hours each (total 6 hours). To-and-fro sweep time is 1 minute. Dimension of PCB:60X90X1.6t(mm) 产品在X、Y、Z三个方向按要求各振动<b>2</b>小时后检测产品</p> 
7	Drop test 跌落试验	<p>Fix sound transducer on the P.C.B with polyester film (t=0.2mm, gross weight:100g) and the height of 120cm to the direction of six surface for 3 cycles. 将产品固定在印制板上，在高度为<b>120CM</b>、<b>6</b>个不同表面各跌落<b>1</b>次，共循环<b>3</b>次后检测产品</p>
8	Solderability 可焊性试验	<p>The part shall be dipped into the sodering bath conditioned as follows; -Solder temp:260± 5°C -Soaking time:2± 0.5sec 将产品浸入<b>260 5C</b>的锡炉中<b>2 05</b>秒后检测产品</p>
9	Reflow Soldering 回流焊接	

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## 5. Measurement Block Diagram

### 5.1 声压测试 S.P.L. Measuring



MIC : ND10 普通声级计或等同品

MIC : ND10 S.P.L. or equivalent

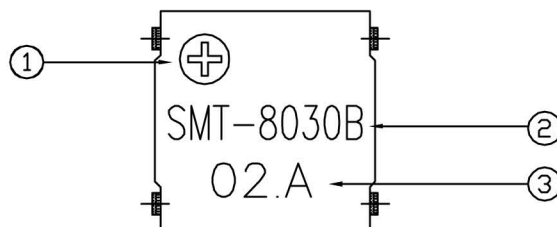
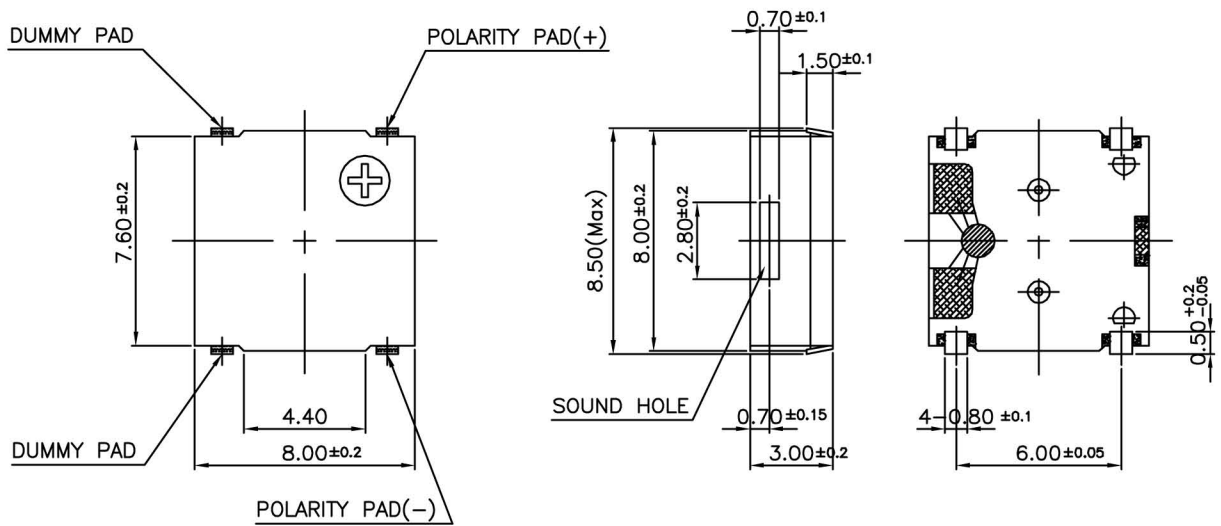
S.G. : DF1010 振荡器或等同品

S.G. : DF1010 Oscillater or equivalent



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## 7. Dimensions



- ① Polarity Mark (+)
- ② Model No.
- ③ Data code

The first digit is the number of the year. The last digit is the month.

A- January through J - October

FIRST ANGLE PROJECTION



UNIT : mm  
Tolerance :  $\pm 0.2$