

# SPECIFICATION

Customer :

Applied To :

Product Name : Magnetic Transducer

Model Name : SMT-9640A

Drawing No. : KP3.840.915R

Compliance with ROHS

Signature of Approval

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Signature of KEPO

Approved by	Checked by	Issued by	Date



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## 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 : Ø9.6 mm

外径: : Ø9.6 mm

2.2 Height : 4mm

高度: : 4 mm

2.3 Weight : 0.5 g

重量: : 0.5g

2.4 Operating Temperature range:

-30~+70°C without loss of function

工作温度: -30~+70°C

2.5 Store Temperature range:

-40~+85°C without loss of function

储藏温度: -40~+85°C

## 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

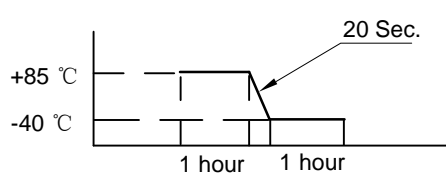
	Items 项目	Specification 规格
1	Rated Voltage 额定电压	5V
2	Operating Voltage 工作电压	2~5V
3	Max. Rated Current 额定电流	90mA /5V
4	Resonant Frequency 谐振频率	2731Hz
5	Min. Sound Pressure Level 额定声压	90dB/5V/10cm
6	Coil Resistance 直流阻抗	25± 3.8 Ω
7	Coil Impedance 交流阻抗	70 Ω
8	Case Material/Color 壳体材质/颜色	PPS/Black

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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	High Temperature Test 高温试验	<p>After being worked in a chamber with <math>+85\pm 2\text{ }^\circ\text{C}</math> for 2h and then being placed in natural condition for 2h, sounder shall be measured.</p> <p>将产品置于 <math>+85\pm 2\text{ }^\circ\text{C}</math> 试验箱中，先工作 2 小时，然后在正常大气压条件下恢复 2 小时后，进行测量</p>
2	Low Temperature Test 低温试验	<p>First being worked in a chamber with <math>-40\pm 2\text{ }^\circ\text{C}</math> for 2h and then being placed in a chamber with <math>-40\pm 2\text{ }^\circ\text{C}</math> for 16h, finally being placed in natural condition for 2h, sounder shall be measured.</p> <p>将产品置于 <math>-40\pm 2\text{ }^\circ\text{C}</math> 试验箱中，先工作 2 小时，再放置 16 小时，然后在正常大气压条件下恢复 2 小时后，进行测量</p>
3	Humidity Test 潮湿试验	<p>After being placed in a chamber with 90 to 95%R.H. at <math>+40\pm 2\text{ }^\circ\text{C}</math> for 2 h and then being placed in natural condition for 2h, sounder shall be measured.</p> <p>将产品置于湿度为 90~95%R.H，温度为 <math>40\pm 2\text{ }^\circ\text{C}</math> 试验箱中 2 小时，然后在正常大气压条件下恢复 2 小时后，进行测量</p>
4	Thermal Shock Test 热冲击试验	<p>After being worked in a chamber at <math>+85\text{ }^\circ\text{C}</math> for 1 hour, then sounder shall be placed in a chamber at <math>-40\text{ }^\circ\text{C}</math> for 1 hour(1 cycle is the below diagram).</p> <p>After 6 above cycles, sounder shall be measured after being placed in natural condition for 1 hour.</p> <p>将产品置于 <math>+85\pm 2\text{ }^\circ\text{C}</math> 试验箱中，先工作 1 小时，然后将产品置于 <math>-40\pm 2\text{ }^\circ\text{C}</math> 试验箱中，再工作 1 小时，经过 6 个循环后，在正常大气压条件下恢复 1 小时，进行测量</p> 

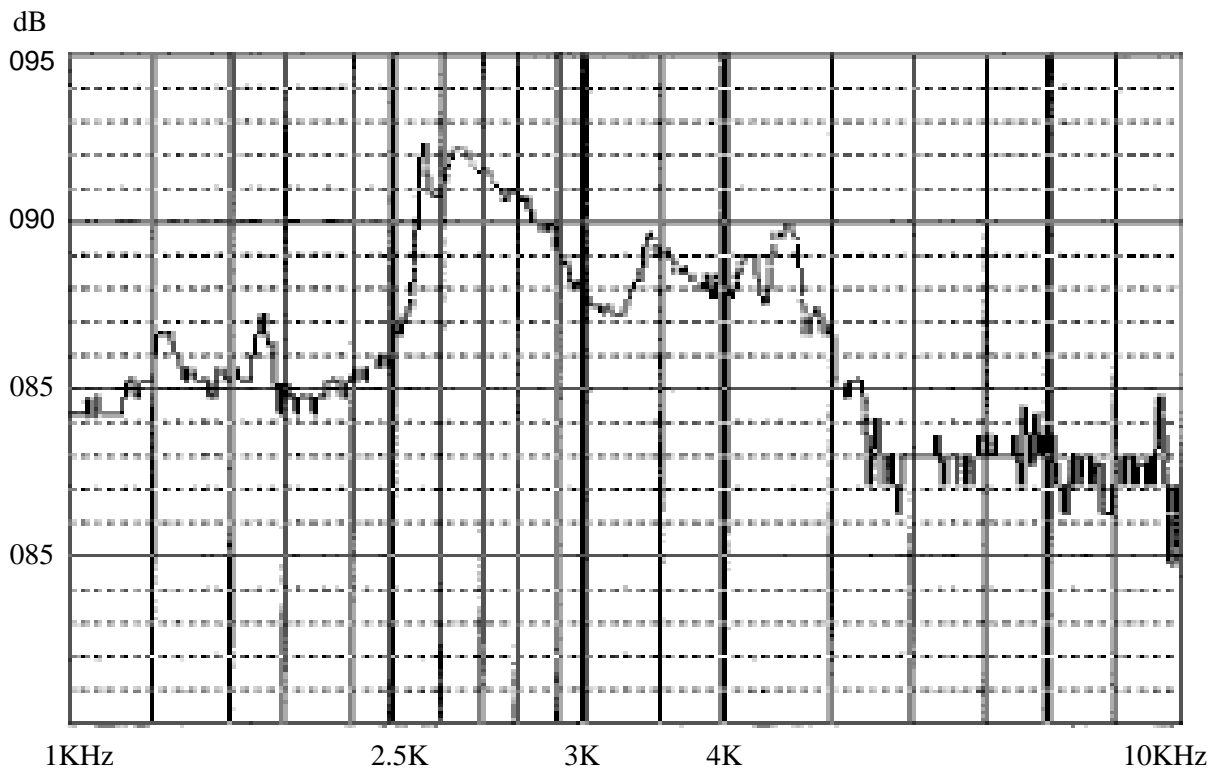
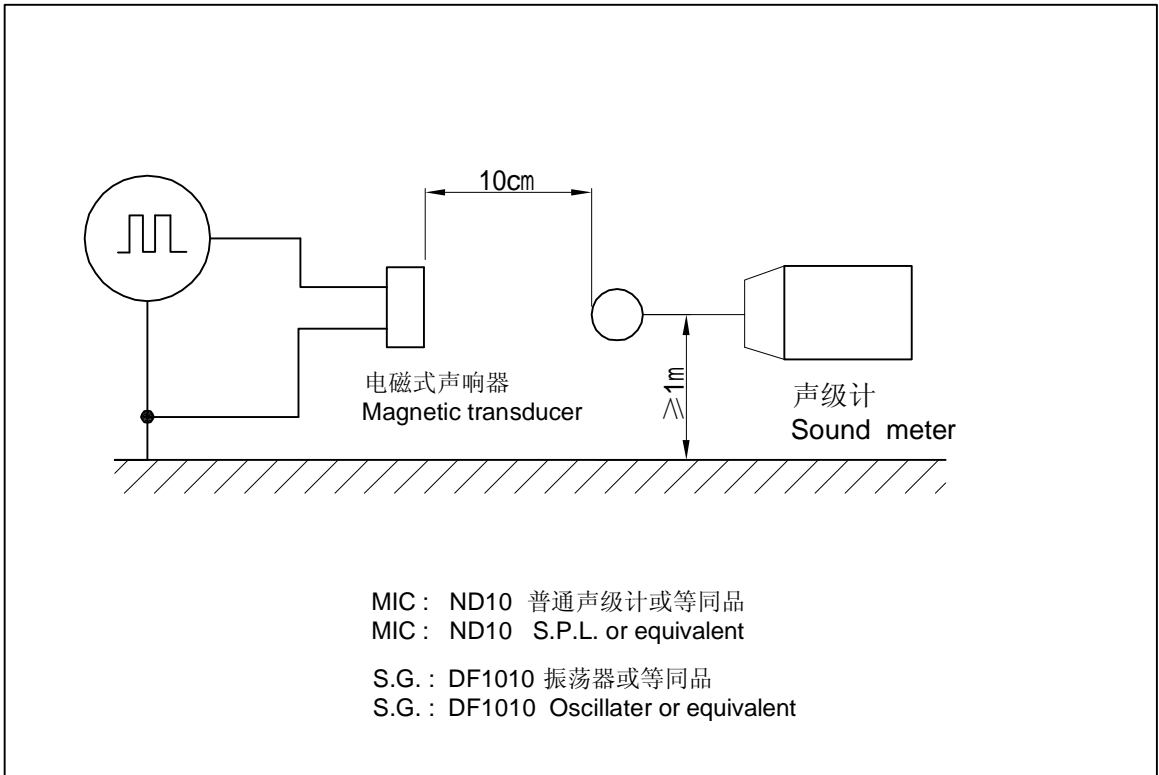
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#### 4. Reliability Test

	Item	Specification
5	Vibration Resistance 振动试验	<p>Sounder shall be measured after being applied vibration of amplitude of 1.5mm with 10 to 30Hz band of vibration frequency to each of 3 perpendicular directions for 2 hour.</p> <p>振幅为1.5mm，频率为10~30Hz，三个不同轴方向各振动2小时，试验后进行测量。</p>
6	Drop Test 跌落试验	<p>Sounder packed in the carton are dropped in six direction from the height of 80cm to the concrete floor.</p> <p>跌落高度80cm,6个不同方向整箱跌落到水泥地，试验后进行测量。</p>
7	Solderability 可焊性试验	<p>Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of <math>+260\pm 5^{\circ}</math> C for <math>3\pm 0.5</math> seconds.</p> <p>插针浸入松香5秒，然后再浸入<math>+260\pm 5^{\circ}</math> C的锡炉中<math>3\pm 0.5</math>秒，插针表面应覆盖一层光滑明亮的焊料。</p>

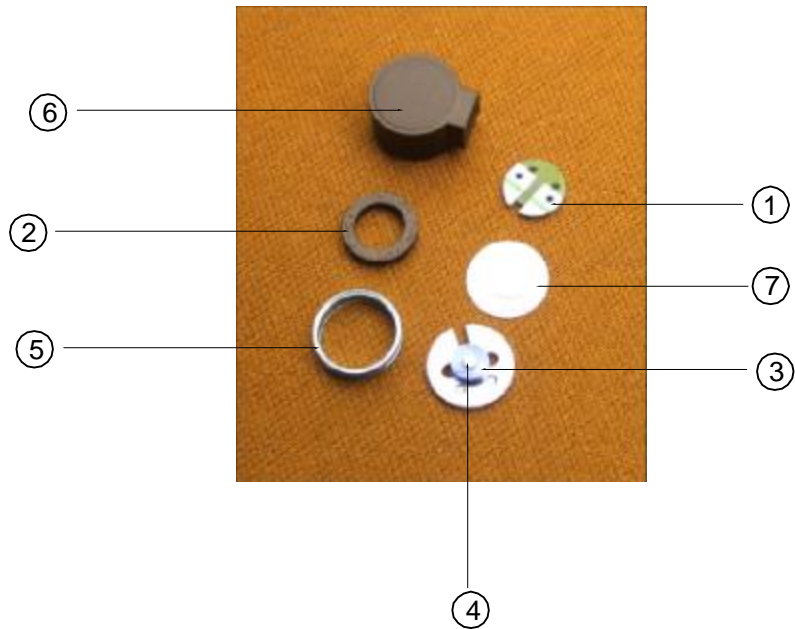
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### 5. Measurement Block Diagram & Response curve



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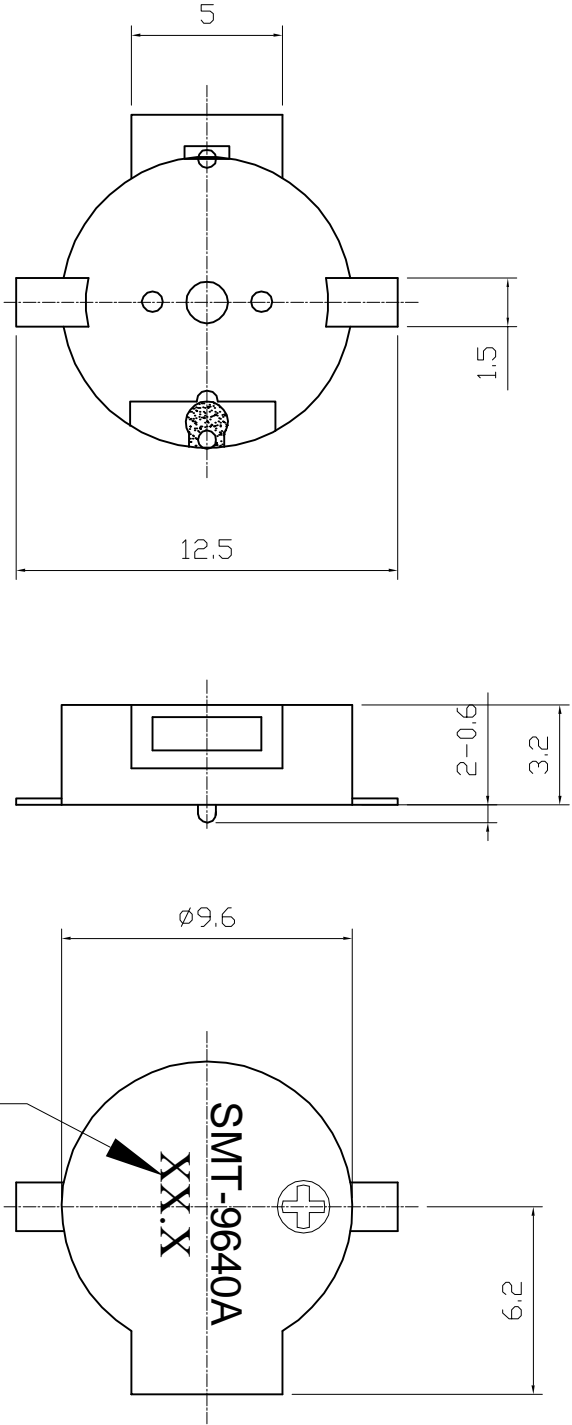
## 6. Structure



7	Diaphragm 膜片	1	/	SH415361/CHEM(B)
6	Case 壳体	1	PPS	SH534731/CHEM(A)
5	Ring 铜套	1	Cu	/
4	T Core T铁	1	Fe	SH415361/CHEM(D)
3	Coil 线圈	1	QANR	SH568576/CHEM(A)
2	Magnetic ring 磁环	1	/	SH437261/CHEM(A)
1	PCB with pin 带导针印制板	1	/	SH543760/CHEM(A)
				SH415360/CHEM(A)
No.	Part Name 型号	数量 Q'TY	Material 材质	SGS 认证号

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### 7. Dimensions



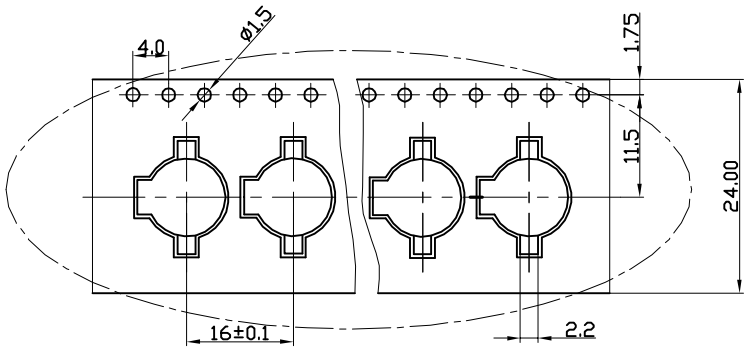
FIRST ANGLE PROJECTION

UNIT : mm  
Tolerance : ±0.5

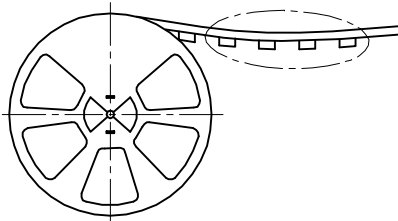


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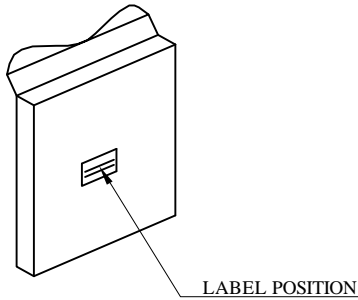
### 8. Packing



TRAY  
:SMT-9640A 1,000PCS



INNER BOX  
:TRAY 1PCS  
TOTAL 1,000PCS



CARTON BOX  
:INNER BOX 5PCS  
TOTAL 5,000PCS

