

# SPECIFICATION

Customer :

Applied To :

Product Name : Magnetic Transducer

Model Name : KPM09-G04B6

Drawing No. : KP3.840.707R

Compliance with RoHS

Signature of Approval

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Signature of KEPO

Approved by	Checked by	Issued by	Date



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Specification for Magnetic Transducer	Page	2/10
	Revision No.	1.0
	Drawing No.	KP3.840.707R
Model No. : KPM09-G04B6		

## CONTENTS

1. Scope  
范围
2. General  
概要
3. Electrical and Acoustic Characteristics.  
电声参数
4. Reliability Test  
可靠性试验
5. Measurement Block Diagram & Response curve  
测试图和曲线图
6. Structure  
结构
7. Dimensions  
尺寸
8. Packing  
包装
9. Revision  
履历表

Specification for Magnetic Transducer		Page	3/10
		Revision No.	1.0
Model No. : KPM09-G04B6		Drawing No.	KP3.840.707R

## 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 : 5.0 mm

高度: 5.0 mm

2.3 Weight : 1g

重量: 1克

2.4 Operating Temperature range:

-20~+70°C without loss of function

工作温度: -20~+70°C

Store Temperature range:

-30~+80°C without loss of function

储藏温度: -30~+80°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

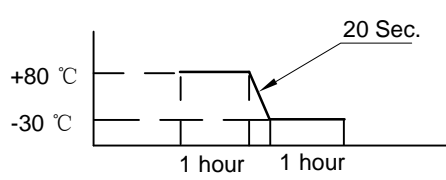
	Items 项目	Specification 规格
1	Rated Voltage 额定电压	3.6V
2	Operating Voltage 工作电压	3~5V
3	Max. Rated Current 额定电流	70mA / 3.6V
4	Resonant Frequency 谐振频率	2731Hz
5	Min. Sound Pressure Level 额定声压	87dB/3.6V/10cm
6	Coil Resistance 直流阻抗	25±4 Ω
7	Coil Impedance 交流阻抗	50±3 Ω
8	Case Material/Color 壳体材质/颜色	PBT/BLACK

Specification for Magnetic Transducer	Page	4/10
	Revision No.	1.0
	Drawing No.	KP3.840.707R
Model No. : KPM09-G04B6		

## 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>+80\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>+80\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>-30\pm 2\text{ }^\circ\text{C}</math> for 2h and then being placed in a chamber with <math>-30\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>-30\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>+80\text{ }^\circ\text{C}</math> for 1 hour, then sounder shall be placed in a chamber at <math>-30\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>+80\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>-30\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> 

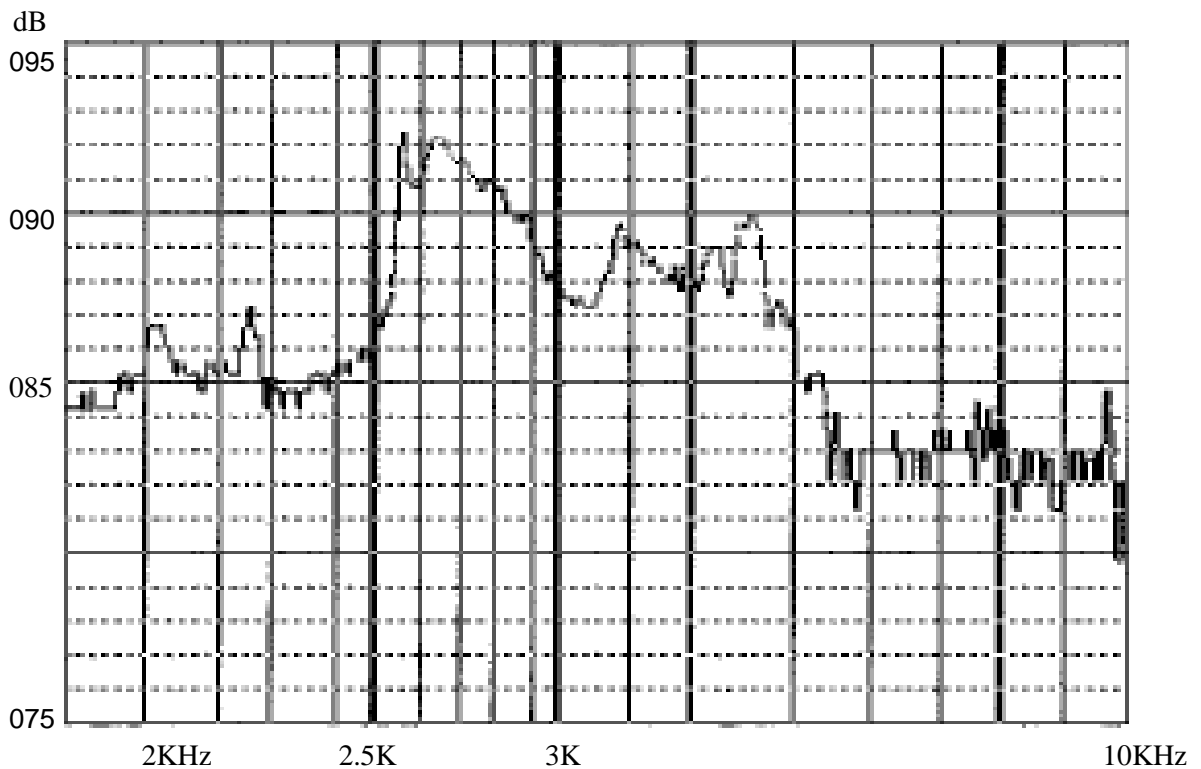
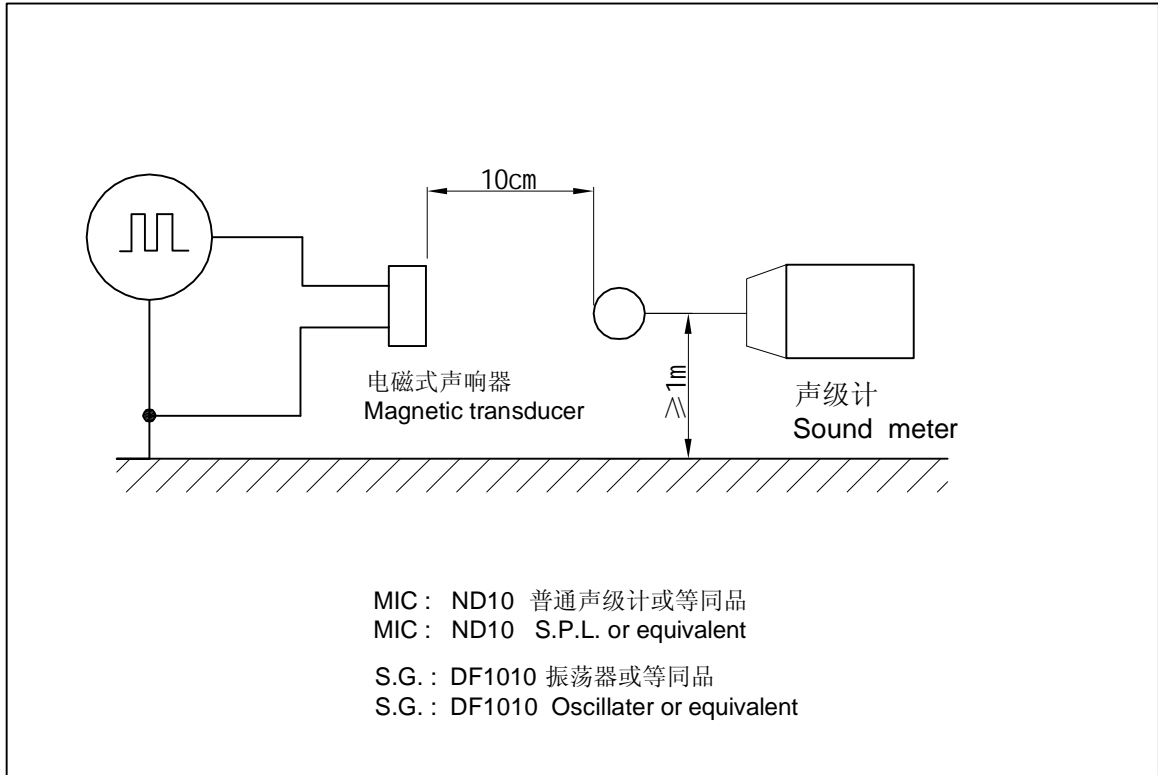
Specification for Magnetic Transducer		Page	5/10
		Revision No.	1.0
Model No. : KPM09-G04B6		Drawing No.	KP3.840.707R

#### 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} \text{C}</math> 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} \text{C}</math>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>
8	Terminal Strength Pulling 插针强度试验	<p>The force 10 seconds of 9.8N is applied to each terminal in axial direction.</p> <p>插针应承受9.8N拉力，拉力时间10秒，插针无松动和脱落等现象。</p>

Specification for Magnetic Transducer	Page	6/10
	Revision No.	1.0
	Drawing No.	KP3.840.707R
Model No. :	KPM09-G04B6	

## 5. Measurement Block Diagram & Response curve



Specification for Magnetic Transducer		Page	7/10
		Revision No.	1.0
Model No. : KPM09-G04B6		Drawing No.	KP3.840.707R

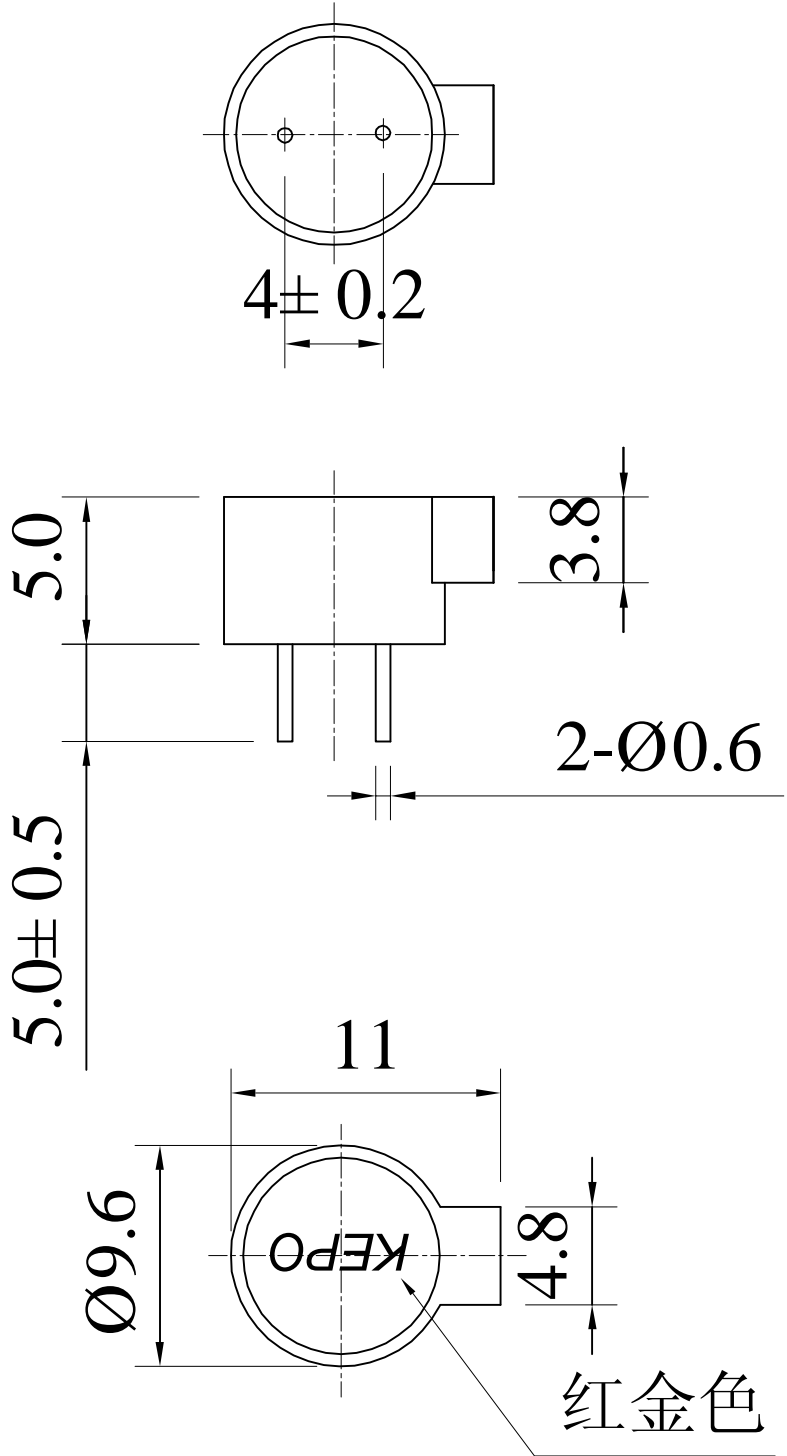
## 6. Structure



7	Cu 铜套	1	Cu	
6	Case 壳体	1	PBT	SH415360/CHEM(D)
5	T Core T铁	1	Fe	SH415361/CHEM(D)
4	Coil 线圈	1	QANR	SH437207/CHEM(NO.2)
3	Magnetic ring 磁环	1	—	2083631/LD(1)
2	PCB 印制板	1	—	CH411778-1/CHEM(A)
1	Diaphragm 膜片	1	—	SH415361/CHEM(B)
No.	Part Name 型号	数量 Q'TY	Material 材质	ROHS 环保

Specification for Magnetic Transducer	Page	8/10
	Revision No.	1.0
Model No. : KPM09-G04B6	Drawing No.	KP3.840.707R

### 7. Dimensions



FIRST ANGLE PROJECTION



UNIT : mm  
Tolerance :  $\pm 0.5$



Specification for Magnetic Transducer	Page	9/10
	Revision No.	1.0
Model No. : KPM09-G04B6	Drawing No.	KP3.840.707R

## 8. Packing



Picture1 500PCS



Picture2 6000PCS

QTY: 6000Pcs  
425 x400 x315

Specification for Magnetic Transducer		Page	10/10
Model No. : KPM09-G04B6		Revision No.	1.0
		Drawing No.	KP3.840.707R

## 9. Revision

Rev. No.	DATE	PAGE	DESCRIPTION	SIGN
1.0	2008.04.15	10	primary	