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	Revision No.	1.2
Model No. : KPI-G4210LC-2868	Drawing No.	OEM2868R

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## 1. Scope

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

本规格书适用于压电式声响器，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 : Ø42 mm

外径: Ø42 mm

2.2 Height : 16mm

高度: 16mm

2.3 Weight : 13 g

重量: 13克

2.4 Operating Temperature range:

-20~+85°C without loss of function

工作温度: -20~+85°C

2.5 Store Temperature range:

-30~+100°C without loss of function

储藏温度: -30~+100°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

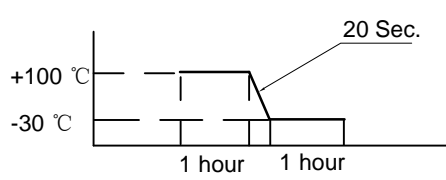
	Items 项目	Specification 规格
1	Rated Voltage 额定电压	12VDC
2	Max.Allowable Voltage 最大输入电压	3~20VDC
3	Max.Rated Current 额定电流	20mA at 12VDC
4	Resonant Frequency 谐振频率	2.8± 0.5KHz
5	Min.Sound Pressure Level 额定声压	90dB at 12VDC/30cm
6	Tone Nature 声调	Continuous
7	Case Material/Color 壳体材质/颜色	PC/BLACK

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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：无开裂、生锈、损伤、变形等现象）。

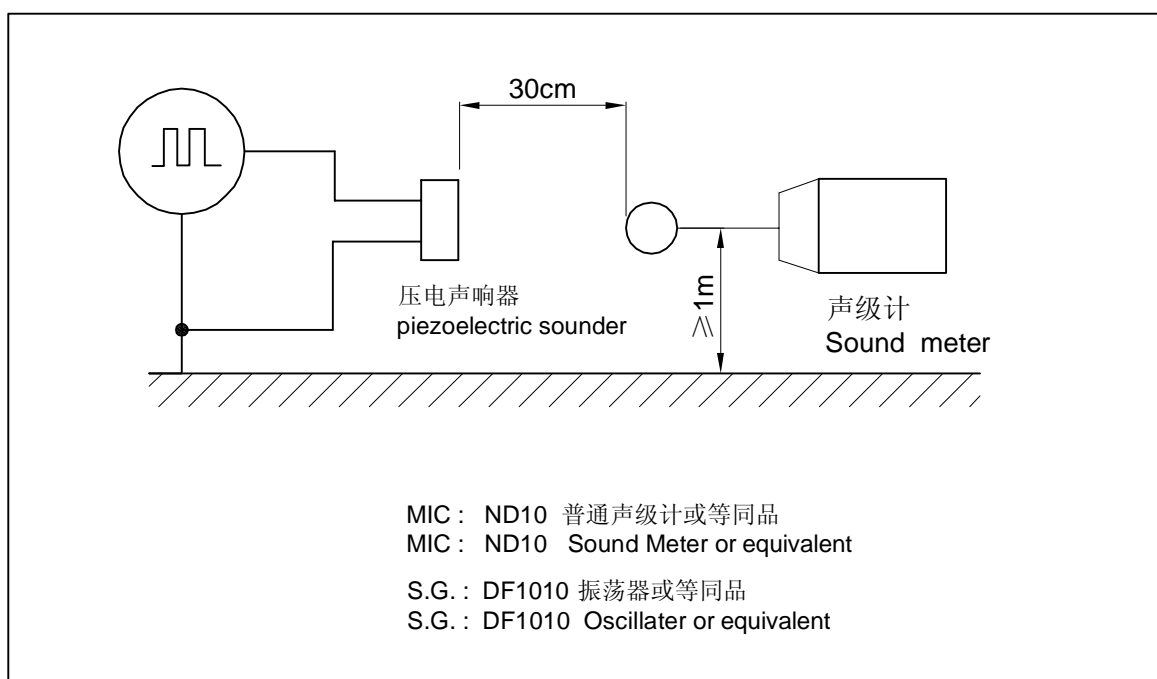
	Item	Specification
1	High Temperature Test 高温试验	<p>After being worked in a chamber with <math>+70\pm 2\text{ }^\circ\text{C}</math> for 2h and then being placed in natural condition for 2h, sounder shall be measured.</p> <p>将产品置于 <math>+70\pm 2\text{ }^\circ\text{C}</math> 试验箱中，先工作 2小时，然后在正常大气压条件下恢复2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>+100\pm 2\text{ }^\circ\text{C}</math> for 1 hour, then sounder shall be placed in a chamber at <math>-30\pm 2\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>+100\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> 

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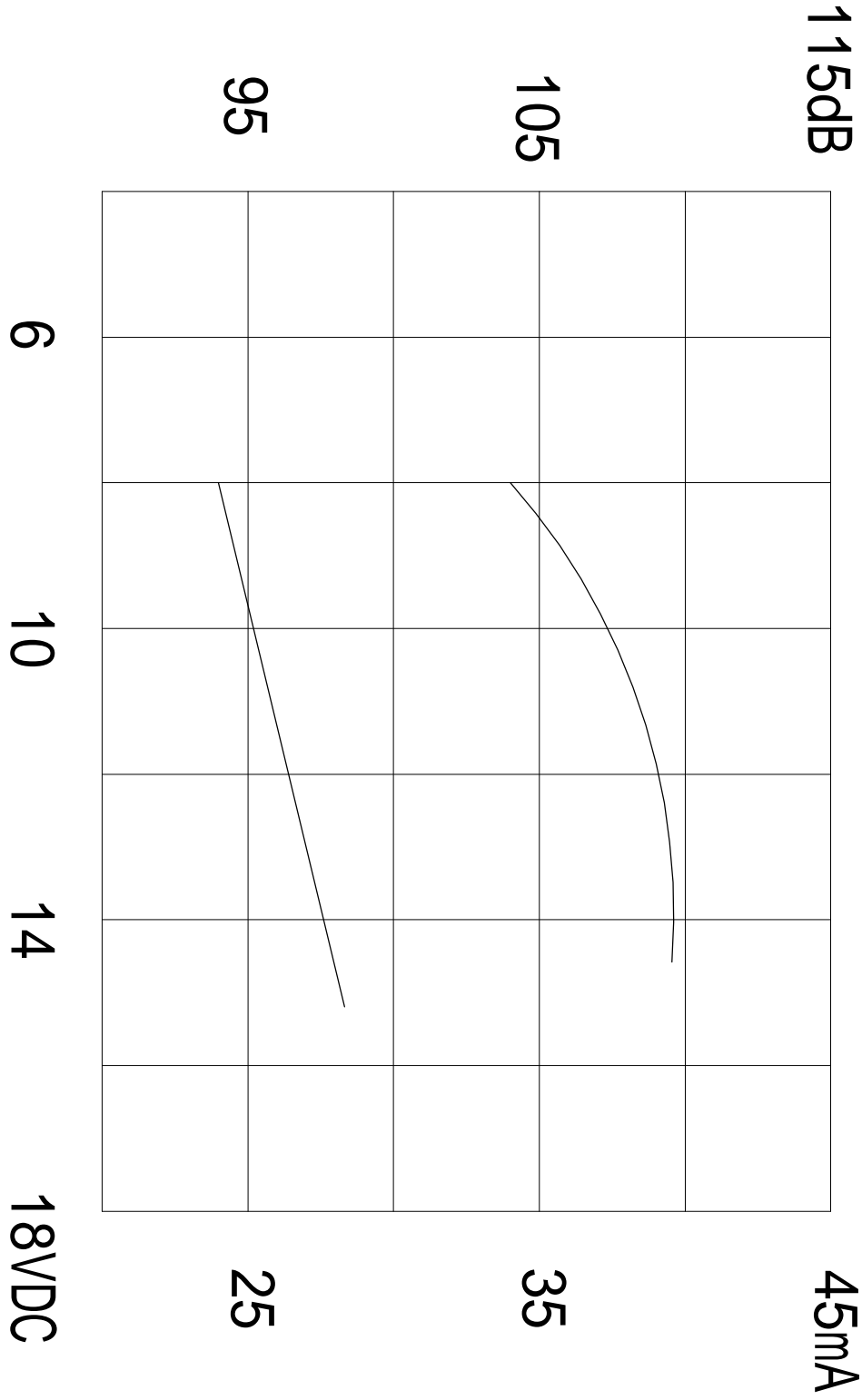
#### 4. Reliability Test

	Item	Specification
5	Vibration Resistance 振动试验	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. 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。
6	Drop Test 跌落试验	Sounder packed in the carton are dropped in six direction from the height of 80cm to the concrete floor. 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。
7	Solderability 可焊性试验	Lead terminals are immersed in rosin for 5 seconds and the immersed in solder bath of $+260 \pm 5^\circ \text{C}$ for $3 \pm 0.5$ seconds. 插针浸入松香5秒，然后再浸入 $+260 \pm 5^\circ \text{C}$ 的锡炉中 $3 \pm 0.5$ 秒，插针表面应覆盖一层光滑明亮的焊料。
8	Terminal Strength Pulling 插针强度试验	The force 10 seconds of 9.8N is applied to each terminal in axial direction. 插针应承受9.8N拉力，拉力时间10秒，插针无松动和脱落现象。

#### 5. Measurement Block Diagram & Response curve

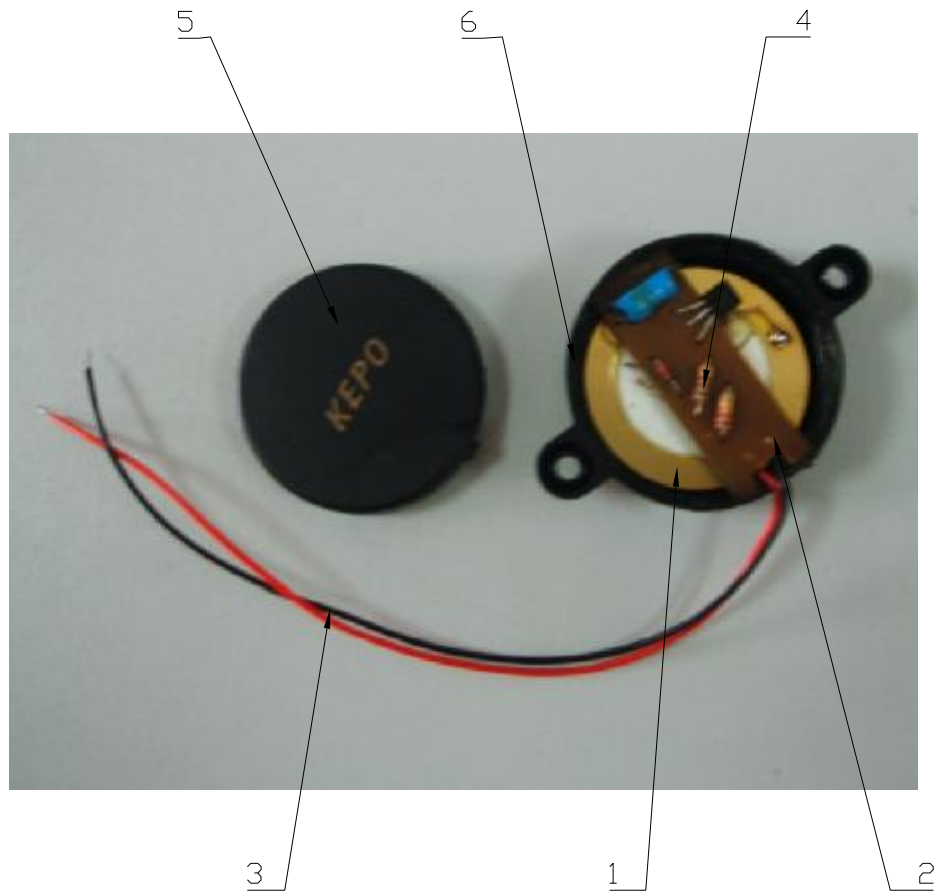


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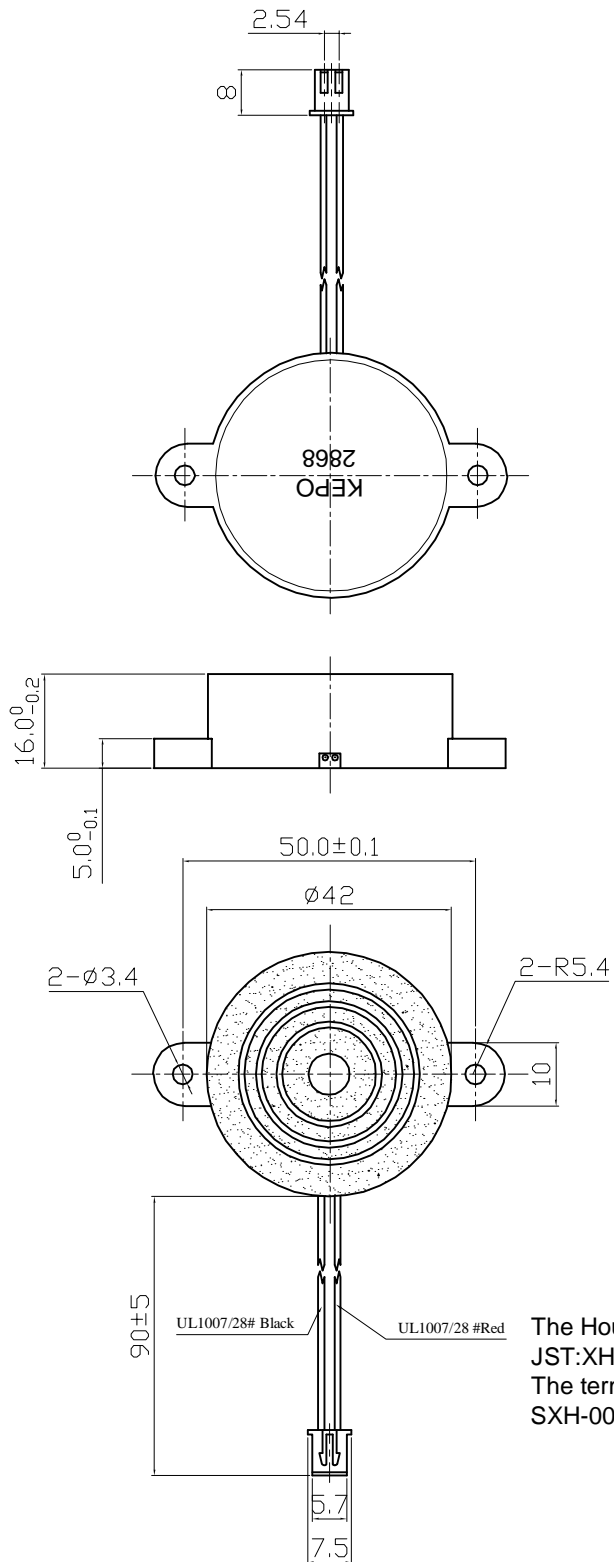
## 6. Structure



6	Case 壳体	1	PC	
5	Cover 后盖	1	PC	
4	Component 元器件	/	/	
3	Wire 引线	2	/	
2	PCB 印制板	1	FR-4	
1	Piezo-Element 蜂鸣片	1	H68	
			Piezo Ceramic	
No.	Part Name 型号	Q'TY 数量	Material 材质	Remarks 备注

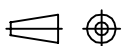
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## 7. Dimensions



The Housing  
JST:XHP-2.  
The terminal JST :  
SXH-001T-P0.6.

FIRST ANGLE PROJECTION



UNIT : mm  
Tolerance :  $\pm 0.5$

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## 8. Packing



QTY:90PCS/Box



Carton Size:460× 295× 350mm  
QTY:1260PCS/Carton



