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Model No. : KPT-1711A3	Revision No.	1.0
	Drawing No.	KP3.840.207.03

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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 : Ø16.8 mm

外径: Ø16.8 mm

2.2 Height : 7 mm

高度: 7 mm

2.3 Weight : 2 g

重量: 2克

2.4 Operating Temperature range:

-20~+80℃ without loss of function

工作温度: -20~+80℃

2.5 Store Temperature range:

-30~+100℃ without loss of function

储藏温度: -30~+100℃

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

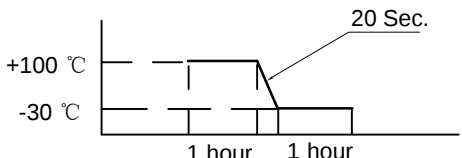
	Items 项目	Specification 规格
1	Rated Voltage 额定电压	12Vp-p Square Wave
2	Max.Allowable Voltage 最大输入电压	30Vp-p Square Wave
3	Max.Rated Current 额定电流	2mA at 4.0KHz/12Vp-p Square Wave
4	Resonant Frequency 谐振频率	4.0± 0.5KHz
5	Min.Sound Pressure Level 额定声压	80dB at 4.0KHz/12Vp-p Square Wave/10cm
6	Capacitance at 100Hz 电容量(at 100Hz)	14000pF± 30%
7	Case Material/Color 壳体材质/颜色	PA/BLACK

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4. Reliability Test

After test(1~7item), the transducer S.P.L. difference shall be within $\pm 5\text{dB}$, 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 $\pm 5\text{dB}$ 之内，外观无变化（例如：无开裂、生锈、损伤、变形等现象）。

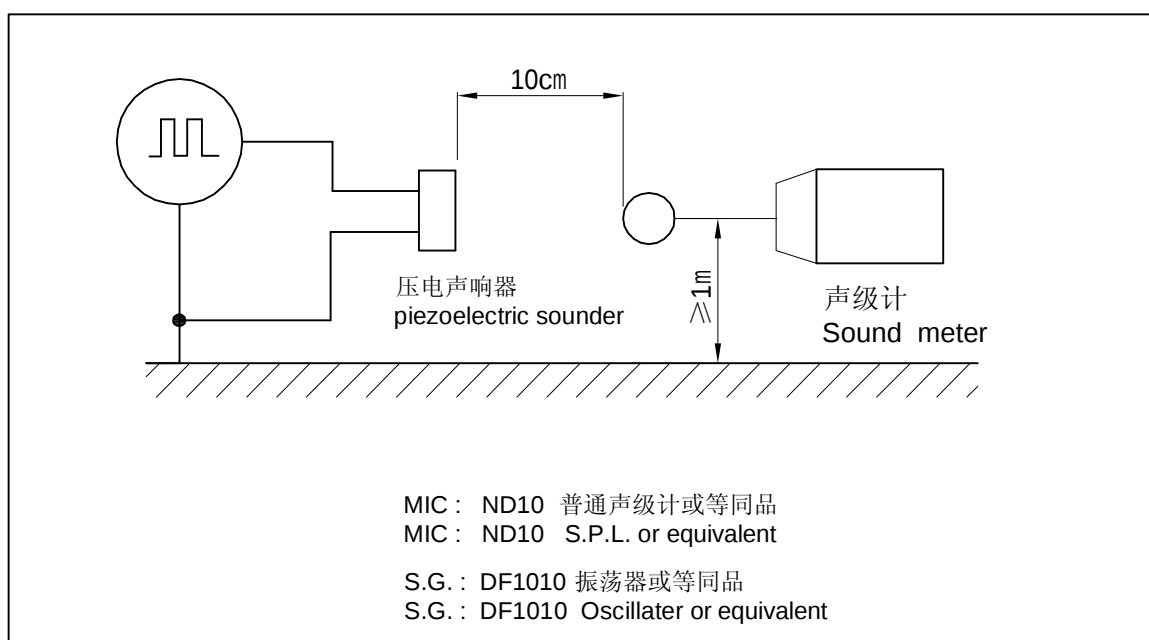
	Item	Specification
1	High Temperature Test 高温试验	After being worked in a chamber with $+100\pm 2\text{ }^{\circ}\text{C}$ for 2h and then being placed in natural condition for 2h, sounder shall be measured. 将产品置于 $+100\pm 2\text{ }^{\circ}\text{C}$ 试验箱中，先工作 2小时，然后在正常大气压条件下恢复2小时后，进行测量
2	Low Temperature Test 低温试验	First being worked in a chamber with $-30\pm 2\text{ }^{\circ}\text{C}$ for 2h and then being placed in a chamber with $-30\pm 2\text{ }^{\circ}\text{C}$ for 16h, finally being placed in natural condition for 2h, sounder shall be measured. 将产品置于 $-30\pm 2\text{ }^{\circ}\text{C}$ 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
3	Humidity Test 潮湿试验	After being placed in a chamber with 90 to 95%R.H. at $+40\pm 2\text{ }^{\circ}\text{C}$ for 2 h and then being placed in natural condition for 2h , sounder shall be measured. 将产品置于湿度为 90-95%R.H，温度为$+40\pm 2\text{ }^{\circ}\text{C}$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
4	Thermal Shock Test 热冲击试验	After being worked in a chamber at $+100\pm 2\text{ }^{\circ}\text{C}$ for 1 hour, then sounder shall be placed in a chamber at $-30\pm 2\text{ }^{\circ}\text{C}$ for 1 hour(1 cycle is the below diagram). After 6 above cycles, sounder shall be measured after being placed in natural condition for 1 hour. 将产品置于$+100\pm 2\text{ }^{\circ}\text{C}$试验箱中，先工作1小时，然后将产品置于$-30\pm 2\text{ }^{\circ}\text{C}$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  The diagram illustrates a thermal shock cycle. It shows a temperature profile with two horizontal segments: one at $+100\text{ }^{\circ}\text{C}$ and another at $-30\text{ }^{\circ}\text{C}$. Each segment is labeled '1 hour'. A vertical line connects the two segments, representing the transition time, which is labeled '20 Sec.'.

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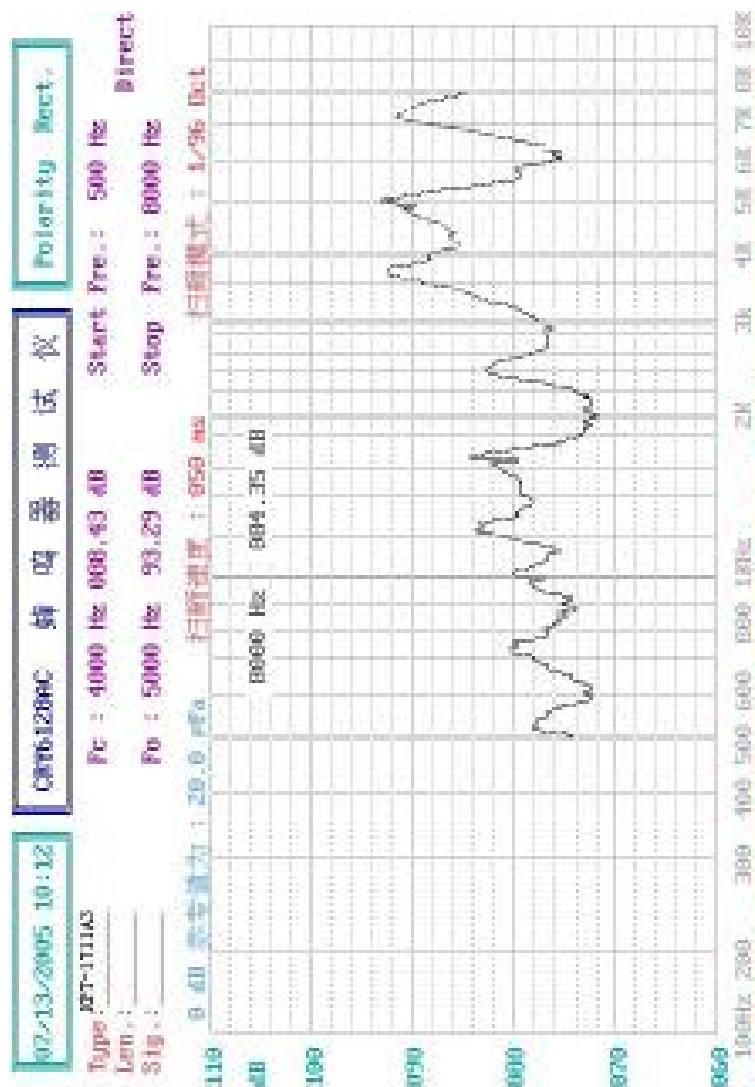
4. Reliability Test

	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 $+230 \pm 5^{\circ} \text{C}$ for 3 ± 0.5 seconds. 插针浸入松香5秒, 然后再浸入$+230 \pm 5^{\circ} \text{C}$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

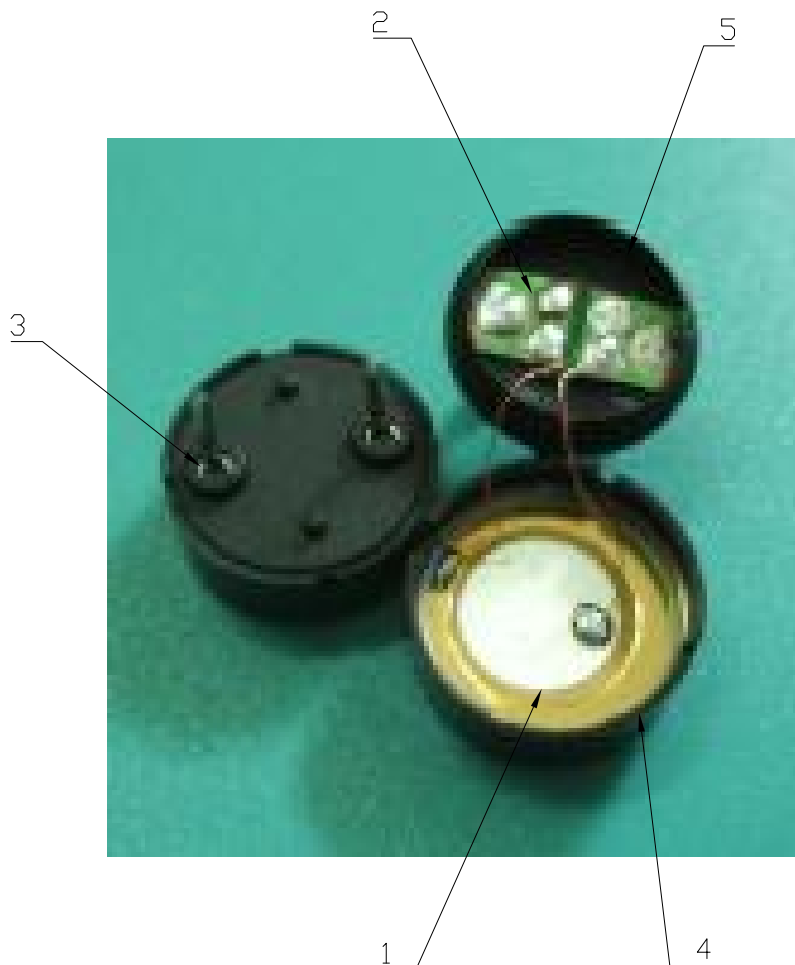


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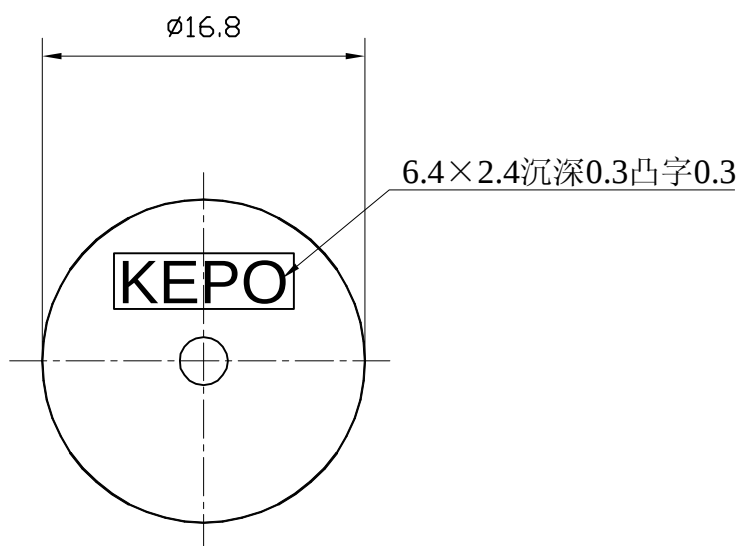
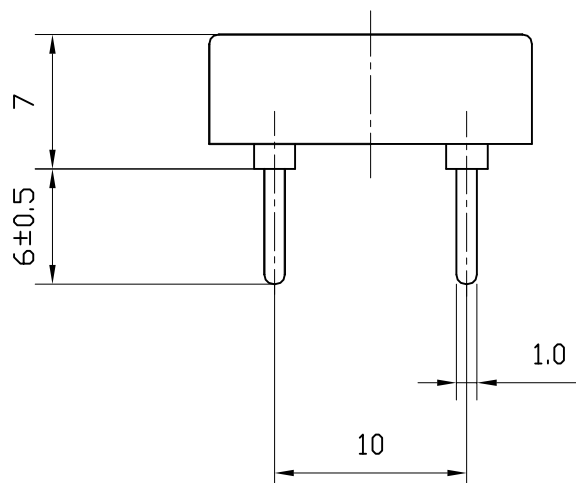
6. Structure



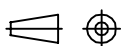
5	Cover 后盖	1	PA66	
4	Case 壳体	1	PA66	
3	Pin 插针	2	Qsn	
2	PCB 印制板	1	FR-4	
1	Piezp-Element 蜂鸣片	1	H65	
			Piezo Ceramic	
No.	Part Name 型号	Q'TY 数量	Material 材质	Remarks 备注

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7. Dimensions



FIRST ANGLE PROJECTION



Unit : mm

Tolerance : ±0.5

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8. Packing



Picture1(150PCS)



Picture2(2100PCS)



Picture3(4200PCS)



Picture4(4200PCS)

QTY: 4200Pcs

SIZE:460 x295 x350

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9. Revision

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