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| | Revision No. | 1.2 |
| | Drawing No. | KP3.840.716R |
| Model No. : | KPX-G1201B1 | |

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1. Scope

This product specification is applied to the Magnetic Buzzer 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蜂鸣器，通常它用在系统中做报警或提示的蜂鸣器用，如果将该产品用于其它领域，请与我们联系。

2. General

2.1 Out-Diameter : Ø12 mm

外径: Ø12 mm

2.2 Height : 7.5 mm

高度: 7.5 mm

2.3 Weight : 2 g

重量: 2 g

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

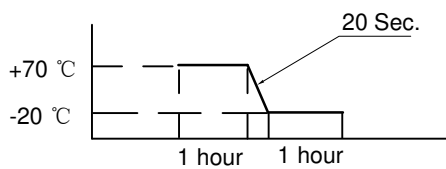
| | Items 项目 | Specification 规格 |
|---|-----------------------------------|---------------------|
| 1 | Rated Voltage 额定电压 | 1.5VDC |
| 2 | Operating Voltage 工作电压 | 1~2VDC |
| 3 | Max. Rated Current 额定电流 | 30mA/1.5VDC |
| 4 | Resonant Frequency 谐振频率 | 3.1±0.5KHz |
| 5 | Min. Sound Pressure Level 额定声压 | 75dB/1.5VDC/10cm |
| 6 | Tone Nature 音调 | Continuous (直音) |
| 7 | Case Material/Color 壳体材质/颜色 | PBT/Gray |

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4. Reliability Test

After test(1~7item), the Buzzer S.P.L . difference shall be within $\pm 10\text{dB}$, Frequency difference shall be within $\pm 0.5\text{KHz}$. 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，蜂鸣器的声压变化值在 $\pm 10\text{dB}$ 之内，频率变化在 $\pm 0.5\text{KHZ}$ 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 woked in a chamber with $+70\pm 2\text{ }^\circ\text{C}$ for 2h and then being placed in natural condition for 2h, sounder shall be measured.</p> <p>将产品置于 $+70\pm 2\text{ }^\circ\text{C}$ 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</p> |
| 2 | Low Temperature Test 低温试验 | <p>First being worked in a chamber with $-20\pm 2\text{ }^\circ\text{C}$ for 2h and then being placed in a chamber with $-20\pm 2\text{ }^\circ\text{C}$ for 16h, finally being placed in natural condndion for 2h, sounder shall be measured.</p> <p>将产品置于 $-20\pm 2\text{ }^\circ\text{C}$ 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</p> |
| 3 | Humidity Test 潮湿试验 | <p>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.</p> <p>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</p> |
| 4 | Thermal Shock Test 热冲击试验 | <p>After being worked in a chamber at $+70\pm 2\text{ }^\circ\text{C}$ for 1 hour, then sounder shall be placed in a chamber at $-20\pm 2\text{ }^\circ\text{C}$ 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$70\pm 2\text{ }^\circ\text{C}$试验箱中，先工作1小时，然后将产品置于$-20\pm 2\text{ }^\circ\text{C}$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</p>  |

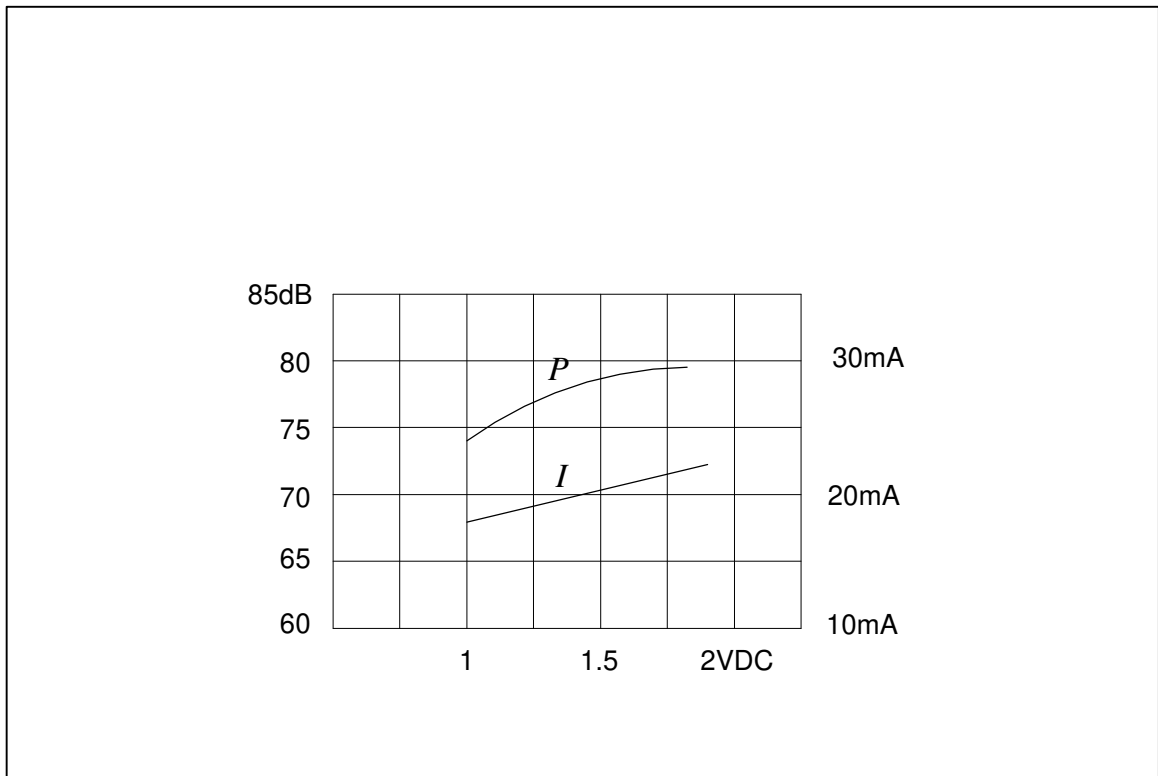
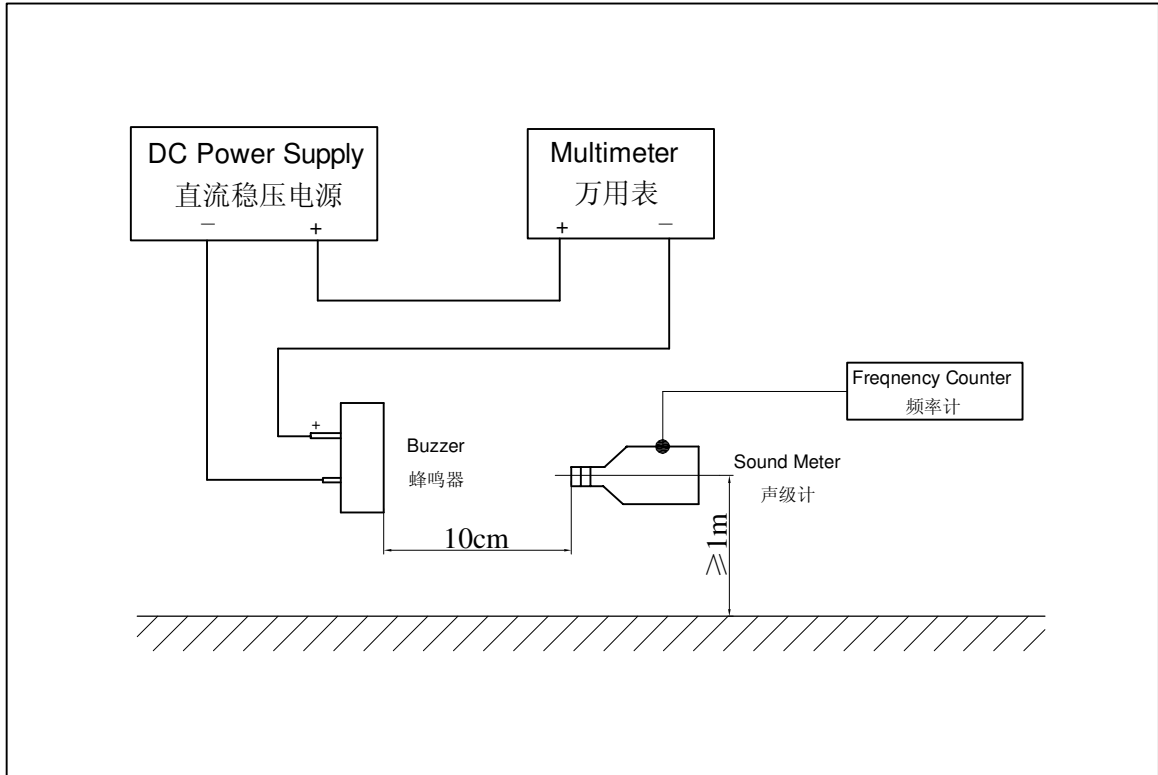
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| | Item | Specification |
|---|-------------------------------------|---|
| 5 | Vibration Resistance 振动试验 | <p>Sounder shall be measured after being applied vibration of amplitude of 1.5mm with 10 to 30Hz band of vibration frequency to each of 3 perpendicular 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 $+260\pm 5^{\circ}\text{C}$ for 3 ± 0.5 seconds.</p> <p>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.</p> |
| 8 | Terminal Strength Pulling 插针强度试验 | <p>The force 10 seconds of 9.8N is applied go 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> |

| | 项目 Item | 判定基准 Determinant norm |
|---|----------------------------|---|
| 1 | 声压 SPL | 在初始值的 $\pm 10\text{dB}$ 以内 $\pm 10\text{dB}$ based on initial value |
| 2 | 额定电流 Max.Rated Current | 在初始值的 $\pm 10\%$ 以内 $\pm 10\%$ based on initial value after expose 4hours at normal temperature |
| 3 | 谐振频率 Resonant Frequency | 在初始值的 $\pm 0.5\text{KHz}$ 以内 $\pm 0.5\text{KHz}$ based on initial value after expose 4hours at normal temperature |

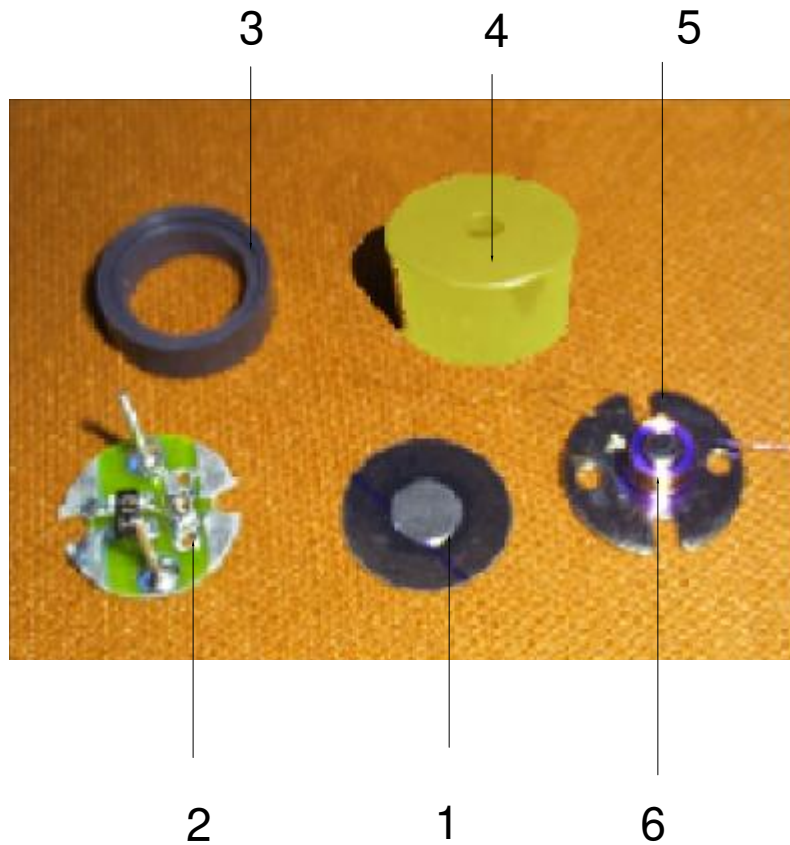
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5. Measurement Block Diagram & Response curve



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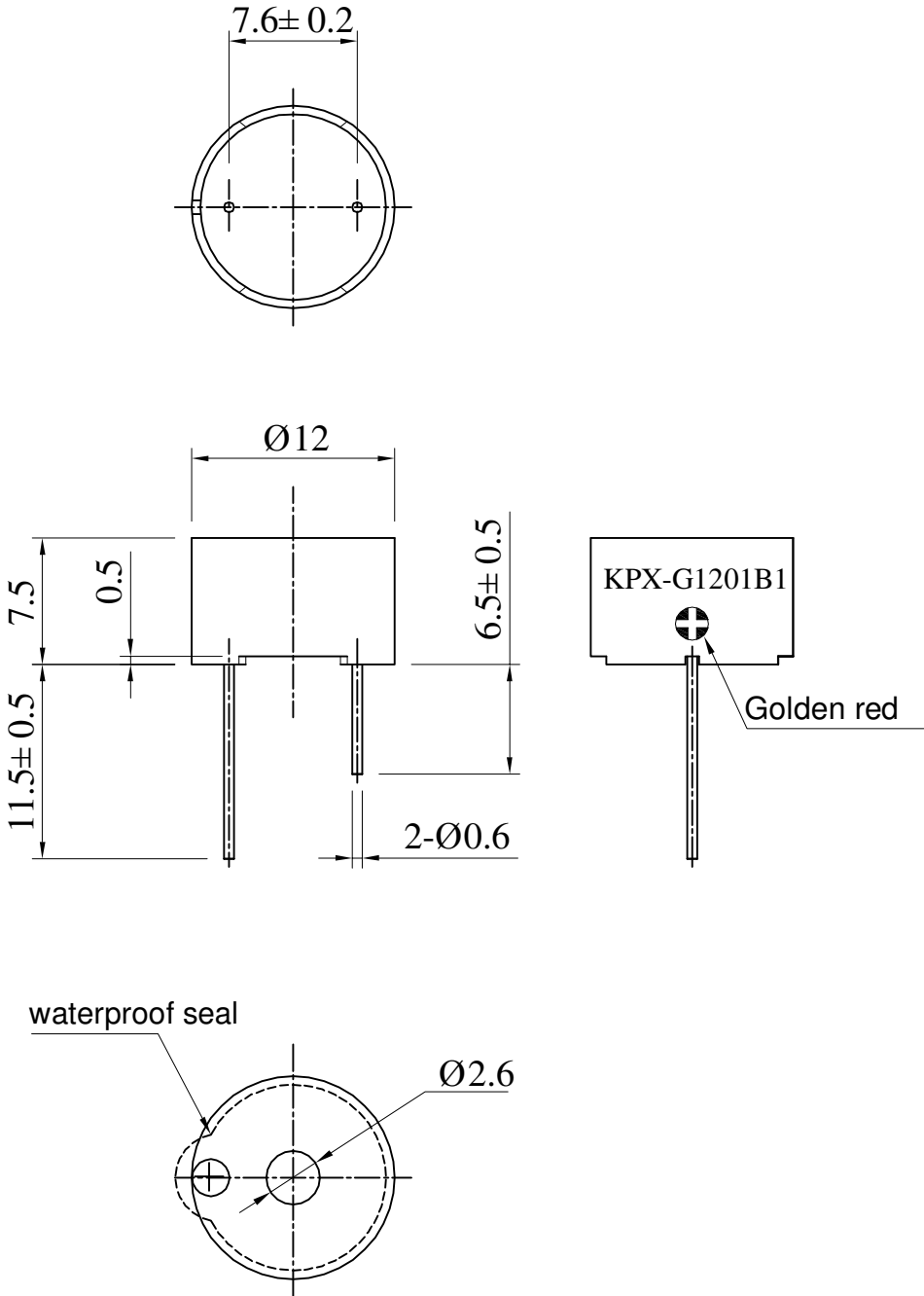
6. Structure



| | | | | |
|-----|------------------------|------|----------------|-----------|
| 6 | Coil 线圈 | 1 | QANR | |
| 5 | T Core T 铁 | 1 | Fe | |
| 4 | Case 壳体 | 1 | PBT | |
| 3 | Magnetic ring 磁环 | 1 | / | |
| 2 | PCB with pin 带导针印制板 | 1 | / | |
| 1 | Diaphragm 膜片 | 1 | / | |
| No. | Part Name 型号 | Q'TY | Material 材质 | SGS 编号 |

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7. Dimensions



FIRST ANGLE PROJECTION

UNIT : mm
Tolerance : ± 0.5

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8. Packing



QTY: 3000Pcs
635x210x150mm

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9. Revision

| Rev. No. | DATE | PAGE | DESCRIPTION | SIGN |
|----------|------------|------|-------------|------|
| 1.2 | 2009.06.17 | 10 | primary | |
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