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	Revision No.	1.0
	Drawing No.	OEM6989R
Model No. :KPI-G1410C-K6989		

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1. 范围 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. 概要 General

2.1 Out-Diameter : Ø14mm

外径: Ø14mm

2.2 Height : 7.8mm

高度: 7.8 mm

2.3 Weight : 2gr.

重量: 2克

2.4 Case Material/Color : PBT/Black

壳体材质/颜色: PBT/黑

3. 额定极限条件 Maximum Rating

	项目 Item	规格 Specification
3.1	输入电压 input Voltage	1.5-16VDC
3.2	工作温度范围 Operating Temperature Range	-20 ~ +80 °C
3.3	储存温度范围 Storage Temperature Range	-30 ~ +100 °C

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4. 电性能 Electrical Characteristics

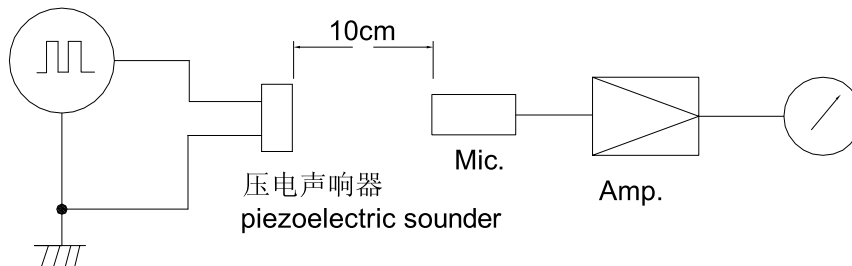
	项目 Item	规格 Specification
4.1	声压 Sound Pressure Level	85dB at 12VDC/10cm
4.2	电流 Max.Rated Current	8mA at 12VDC
4.3	频率 Resonant Frequency	4.3± 0.5KHz
4.4	音调 Tone Nature	Continuous

测试条件参见下项
Refer to next item for measuring method.

5. 测试方法 Measuring Method

5.1 声压测试线路 S.P.L. Measuring Circuit

输入信号:12VDC
Input Signal:12VDC



MIC : ND10 普通声级计或等同品

MIC : ND10 Sound Meter or equivalent

S.G. : DF1731SL3A 稳压电源或等同品

S.G. : DF1731SL3A DC Power Supply or equivalent

5.2 测试环境 Measuring Condition

温度+25± 3℃, 湿度60± 10%R.H.标准测试状态,在没有疑问的场合,可以在温度+5~+35℃,湿度45~85%R.H.的范围内测试.

Part shall be measured under a condition (Temperature :+5 to +35 °C, Humidity :45 to 85%R.H.) unless the standard condition (Temperature :+25 ± 3°C, Humidity :60 ± 10 %R.H.) is regulated measure.

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6. 机械性能 Physical Characteristics

	实验项目 Item	实验条件 Test Condition	实验后规格 Specification
6.1	耐冲击性 Shock	<p>峰值加速度 490m/s^2, 半正弦波, XYZ 三个方向各3次冲击实验后, 测试声响器.</p> <p>Sounder shall be measured after being applied shock (490m/s^2) for each three mutually perpendicular directions to each of 3 times by half sine wave.</p>	<p>符合表1的要求</p> <p>The measured value shall meet Table 1.</p>
6.2	耐振动性 Vibration Resistant	<p>振动频率 10~55 Hz, 1.5mm 全振幅, XYZ 三个方向各2小时试验后, 测试声响器.</p> <p>Sounder shall be measured after being applied vibration of amplitude of 1.5mm with 10 to 55Hz band of vibration frequency to each of 3 perpendicular directions for 2 hours.</p>	
6.3	耐焊接性 Soldering Heat Resistance	<p>将声响器的插针插入(插至距声响器壳体 1.5mm 处为止) $+300 \pm 5^\circ\text{C}$ 的焊锡槽 3 ± 0.5 秒或 $+260 \pm 5^\circ\text{C}$ 的焊锡槽 10 ± 1 秒, 然后在常温中放置4小时后, 测试声响器.</p> <p>Lead terminal are immersed up to 1.5mm from sounder's body in solder bath of $+300 \pm 5^\circ\text{C}$ for 3 ± 0.5 seconds or $+260 \pm 5^\circ\text{C}$ for 10 ± 1 seconds, and then sounder shall be measured after being placed in natural condition for 4 hours.</p>	
6.4	可焊性 Solderability	<p>先将声响器的插针浸入松香液 5秒钟, 然后浸入 $+260 \pm 5^\circ\text{C}$ 熔融的锡槽中 3 ± 0.5 秒.</p> <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>	
6.5	插针强度 Terminal Strength Pulling	<p>分别在每个插针的轴向施加 9.8 牛顿的静荷重 10 秒.</p> <p>The force 10 seconds of 9.8N is applied to each terminal in axial direction.</p>	

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7. 环境性能 Environmental Characteristics

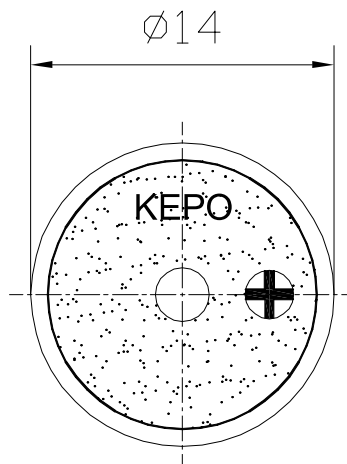
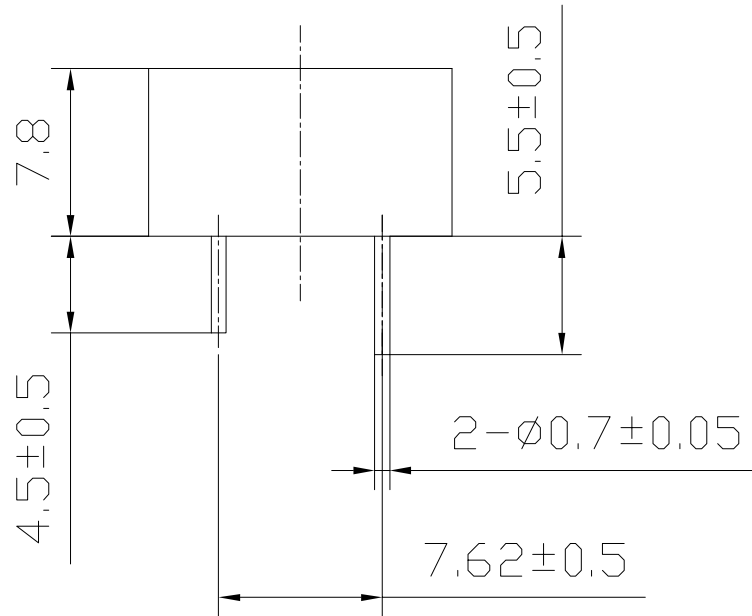
	实验项目 Item	实验条件 Test Condition	实验后规格 Specification
7.1	高温放置 Dry Heat Test (Storage)	放置于温度 $+100 \pm 2^\circ\text{C}$ 的烘箱内96小时, 然后取出, 在常温下放置4小时后, 测试声响器。 After being placed in a chamber with $+100 \pm 2^\circ\text{C}$ for 96 hours and then being placed in natural condition for 4 hours, sounder shall be measured.	符合表1的要求 The measured value shall meet Table 1.
7.2	低温放置 Cold Test (Storage)	放置于温度 $-30 \pm 2^\circ\text{C}$ 的制冷箱内96小时, 然后取出, 在常温下放置4小时后, 测试声响器。 After being placed in a chamber with $-30 \pm 2^\circ\text{C}$ for 96 hours and then being placed in natural condition for 4 hours, sounder shall be measured.	
7.3	耐湿性 Humidity	放置于 90%~95% R.H., 温度 $+40 \pm 2^\circ\text{C}$ 的环境试验箱内96小时, 然后取出, 在常温下放置4小时后, 测试声响器。 After being placed in a chamber with 90 to 95%R.H. at $+40 \pm 2^\circ\text{C}$ for 96 hours and then being placed in natural condition for 4 hours, sounder shall be measured.	
7.4	温度循环 Temperature Cycle	先放置于温度 $-30 \pm 2^\circ\text{C}$ 的制冷箱内30分钟, 然后放置于室温($+20^\circ\text{C}$)15分钟后, 放置于 $+100 \pm 2^\circ\text{C}$ 的烘箱内30分钟, 再放置于室温($+20^\circ\text{C}$)15分钟。 经过以上循环5次, 在常温下放置4小时后, 测试声响器。 After being placed in a chamber at $-30 \pm 2^\circ\text{C}$ for 30 minutes, sounder shall be placed at room temperature($+20^\circ\text{C}$). After 15 minutes at this temperature, sounder shall be placed in a chamber at $+100 \pm 2^\circ\text{C}$. After 30 minutes at this temperature, sounder shall be returned to room temperature ($+20^\circ\text{C}$) for 15 minutes. After 5 above cycles, sounder shall be measured after being placed in natural condition for 4 hours.	

表 1 Table 1

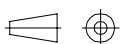
项 目 Item	试验后变化量 Specification after test
声压级 Sound Pressure Level	初始值 $\pm 10\text{dB}$ Initial Value $\pm 10\text{dB}$

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8. Dimensions



FIRST ANGLE PROJECTION



UNIT : mm
Tolerance : ±0.5